# PROGRESS REPORT

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OF

# FOREST ADMINISTRATION

OF THE

# PROVINCE OF ASSAM

FOR THE YEAR

## 1891-92.

By J. McKEE, Esq.,
OFFG. CONSERVATOR OF FORESTS, ASSAM

SHILLONG
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# TABLE OF CONTENTS.


PARA.

INTRODUCTION ... ... ... ... ... ... ... 1-9

CHAPTER I.—AREA AND BOUNDARIES—

1. Area of reserved forests ... ... ... ... ... ... 10-13
2. " protected " ... ... ... ... ... ... 14-15
3. " unclassed State forests ... ... ... ... ... 16
4. Boundaries ... ... ... ... ... ... ... 17

CHAPTER II.—SURVEYS, WORKING PLANS, AND PLANS OF OPERATIONS—

1. Surveys ... ... ... ... ... ... ... ... 18
2. Working plans and plans of operations ... ... ... ... ... 19-24

CHAPTER III.—PROTECTION AND IMPROVEMENT—

1. Establishment ... ... ... ... ... ... ... 25-33
2. General protection and breaches of the Forest Law ... ... ... ... 34-39
3. Forest fires ... ... ... ... ... ... ... 40-48
4. Natural reproduction ... ... ... ... ... ... 49-52
5. Artificial reproduction ... ... ... ... ... ... 53-62
6. Improvement felling ... ... ... ... ... ... 63
7. Climber cutting ... ... ... ... ... ... ... 64
8. Communications and buildings ... ... ... ... ... ... 65-66

CHAPTER IV.—YIELD AND WORKING—

1. Summary of removals from forests ... ... ... ... ... 67-69
2. Departmental operations ... ... ... ... ... 70
3. Removal of produce by purchasers ... ... ... ... ... 71
4. Free grants of forest produce ... ... ... ... ... ... 72
5. Outturn of shared forests ... ... ... ... ... ... 73-74
6. Ditto of tea boxes from sawmills ... ... ... ... ... 75
7. Timber valuation under Waste Land Rules ... ... ... ... 76-77
8. Outturn of minor produce ... ... ... ... ... ... 78-88

CHAPTER V.—FINANCIAL RESULTS ... ... ... ... ... 89-94

CHAPTER VI.—GENERAL REMARKS ... ... ... ... ... 75-96

ANNUAL FORMS 49 TO 62.

APPENDICES—

I.—Register of reserved forests.
II.—Statement of boundary work.
III.—Kulsi plantation memorandum.
IV.—Chardwar ditto ditto.
V.—Statement of free grants of produce.
VI.— Ditto showing timber and other produce registered at forest revenue stations in Cachar and Sylhet.
VII.—Imports and exports of forest produce.

No. 73 A.

FROM

J. McKEE, Esq.,

*Offg. Conservator of Forests, Assam,*

To

THE SECRETARY TO THE CHIEF COMMISSIONER OF ASSAM.

*Shillong, the 11th July 1892.*

SIR,

I HAVE the honour to submit the Annual Forest Administration Report for the year 1891-92.

Twenty copies of map are herewith attached.

I have the honour to be,

SIR,

Your most obedient Servant,

J. McKEE,

*Offg. Conservator of Forests, Assam.*

BENGAL SECRETARIAT LIBRARY

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION IN ASSAM

## FOR THE YEAR 1891-92.

By J. McKEE,

OFFG. CONSERVATOR OF FORESTS, ASSAM.

## INTRODUCTION.

1. The chief facts of the year in forest work may be briefly summarised as follows :

2. The area of the reserves was increased by 10 square miles ; and 395 square miles were notified as proposed reserves under section 4 of the Forest Act.

3. The boundaries of the demarcated forests were carefully maintained and duly inspected by Divisional Officers.

4. The survey of the Goálpára Sâl forests was continued by the Imperial Forest Survey Branch, with the following results :

An area of 180 square miles was topographically surveyed on the 4-inch scale. Triangulation was extended over an area of 1,106 square miles. The area traversed was 61 square miles.

5. Under working plans, the demarcation of class lines in the Goálpára Sâl forests was completed ; and an enumeration of girth classes carried out over sample areas in the forests of Panbari, Sankos, Ripu, Charaidaka, and Guma.

6. The number of forest cases prosecuted in the courts during the year were 179, as compared with 113 in the previous year, convictions being obtained in 78 per cent. of these cases.

Besides the above, 260 cases were compounded under section 67 of the Forest Act.

7. The area of forests under fire protection was 730,556 acres, or practically the same as last year. But of this area, only 642,000 acres, or 88 per cent., were successfully protected, as compared with 94 per cent. in the previous year.

The cost of protection was, however, slightly less, being Rs. 19-6-9 per square mile, as compared with Rs. 19-7-11 in 1890 91.

8. The outturn of the year in timber and fuel, including free grants, was 4,855,278 cubic feet, as compared with 4,554,708 in the previous year.

The value of the outturn in minor products, including free grants, came to Rs. 78,415, as compared with Rs. 74,913 in 1890-91.

The value of all produce granted free of payment was Rs. 98,062, as compared with Rs. 97,004 in the previous year.

9. The financial results of the year show a surplus of Rs. 68,604, or Rs. 25,664 in excess of last year's figures.

# CHAPTER I.

## AREA AND BOUNDARIES.

### AREAS.

10. The Assam Forest Regulation of 1891 not having come into force until the 1st April 1892, the old classification of forests has been adhered to in Form No. 49. The following table shows the changes effected in the area of forest lands during the year under report :

| Class of forests. | Area on 1st April 1891. | Added during year | Excluded during year | Area on 1st March 1892 | Percentage of forest area to area of province. |
|---|---|---|---|---|---|
| | Square miles | Square miles. | Square miles. | Square miles. | |
| Reserves ... ... | 3,602 | 10 | ..... | 3,612 | 8 |
| Protected ... ... | 916 | ..... | 4 | 912 | 2 |
| Unclassed ... ... | 5,470 | 17 | 52 | 5,435 | 12 |
| Total ... ... | 9,988 | 27 | 56 | 9,959 | 22 |

Reserves.

11. The area of the reserves was increased by 6,765 acres, or 10 square miles, as follows, no exclusions having taken place :

| District. | Name of forest. | Area. | | Number and date of notification under section 19 of Act VII of 1878. |
|---|---|---|---|---|
| | | Acres. | Square miles. | |
| Cachar ... ... | Addition to Barak reserve | 1,110 | 2 | 633R., dated the 24th February 1892. |
| Nowgong ... ... | Ditto to Sunng reserve | 4,688 | 7 | 2883R., dated the 30th July 1891. |
| Khási Hills... ... | Riatkhwan reserve | 967 | 1 | 806R., dated the 5th March 1892. |

Proposed reserves.

12. Besides the above, 252,909 acres, or 395 square miles, were notified as below under section 4 of the Act as proposed reserves, the settlement enquiry in regard to which is still in progress :

| No. | Name of forest. | Area. | | District. | Number and date of notification under section 4 of Act VII of 1878. |
|---|---|---|---|---|---|
| | | Acres. | Square miles. | | |
| 1 | Western Mikir Hill reserve... | 48,276 | 75·43 | Nowgong | 3372R., dated the 28th August 1891. |
| 2 | Second addition to the Dobo-ka reserve. | 2,141 | 3·34 | " | Ditto ditto. |
| 3 | Nomati reserve ... | 120,960 | 189·00 | " | Ditto ditto. |
| 4 | Addition to the Rangkhong reserve. | 60,800 | 95·00 | " | Ditto ditto. |
| 5 | Barkola reservé ... | 1,541 | 2·40 | " | Ditto ditto. |
| 6 | Panidihingia reserve ... | 19,200 | 30·00 | Sibságar | 1377R., dated the 6th April 1891. |
| | Total ... ... | 252,918 | 395·17 | ... | |

13. The proposals submitted in 1890 for further reserving an area of about 86 square miles in the Gáro Hills are still under consideration by the Deputy Commissioner, who apparently has not been able to find time for visiting the tracts in question and reporting on the advisability or otherwise of adopting Mr. Mann's proposal. The Sâl areas in this district are said to be of limited extent only ; it is of importance, therefore, that the Forest Department should obtain the largest possible area still available, before the axe and fire of the *jhúmer* have destroyed what remains of this valuable timber.

14. The area of t he protected forests remained unchanged, except for the exclusion of 2,578 acres, or 4 square miles, which were given out in the Patharia forests of the Sylhet district for cultivation.

Protected forests.

15. It may be noted here that in future, owing to the repeal in Assam of Act VII of 1878, and the substitution of the new Forest Regulation, it will be necessary to delete this class of forests from our register, as the *Regulation* takes cognisance of only two classes of forest estates, namely, *reserves* and *village forests*. What are now termed *protected* forests will henceforth, therefore, be transferred to the reserves, or be included under the head of unclassed forests and waste lands. But as many of these areas have been demarcated and been under the management of the Forest Department for some years, it is nearly certain they will be added to the former category; and, if this be done, in addition to reserving those areas mentioned in paragraphs 12 and 13, the proportion of this class of forest for the province, as a whole, would be raised from 8 to 11 per cent. At present, the districts that require most attention in this connection are those shown in the following statement, none of which own more than 4 per cent of permanent forest reserves. These particular districts would, however, be most affected by the recent proposed additions :

| Districts. | Area of district in square miles | Area of reserves in square miles. | Percentage on district area |
|---|---|---|---|
| Sylhet ... ... ... | 5,381 | 170 | 3 |
| Kámrúp ... ... | 3,631 | 128 | 3½ |
| Nowgong ... ... | 3,257 | 144 | 4 |
| Sibságar ... ... | 2,854 | 65 | 2 |
| Gáro Hills ... ... | 3,149 | 133 | 4 |

16. The differences exhibited under unclassed forests are entirely owing, in the case of additions, to the resumption by Government of waste land grants, and, in the case of deductions, to the allotment of new lands for cultivation or the transfer of lands to head reserved forests. The details of these changes are given below :

Unclassed forests.

ADDITIONS.

| | | | |
|---|---|---|---|
| Cachar | ... | ... | ... | 2,208 acres resumed. |
| Sibságar | ... | ... | ... | 213 „ „ |
| Lakhimpur | ... | ... | ... | 8,299 „ „ |

DEDUCTIONS.

| | | | | |
|---|---|---|---|---|
| Cachar | ... | 6,872 acres | ... | 5,762 for cultivation.<br>1,110 to reserves. |
| Darrang | ... | 943 „ | ... | For tea cultivation. |
| Nowgong | ... | 4,744 „ | ... | 56 for cultivation.<br>4,688 to reserves. |
| Sibságar | ... | 2,204 „ | ... | For cultivation. |
| Lakhimpur | ... | 18,541 „ | ... | 3,201 for cultivation, 30 years' lease.<br>112 „ „ 10 „ „<br>14,539 „ „ 1 „ „<br>689 resumed and then reallotted for cultivation. |

BOUNDARIES.

17. A large proportion of the Assam forest boundaries are fortunately natural, being represented by roads, streams, or rivers sufficiently well defined, and in most cases sufficiently permanent in their location to render any artificial demarcation unnecessary. Appendix II shows the total extent of demarcated boundary to be 1,164 miles, or 23 miles more than last year, marked with 5,085 mounds, as compared with 4,981 last year, the differences being owing to a few unimportant additions and alterations of boundary in Goálpára, Gáro Hills, and Sibságar.

General

Of the above, 1,103 miles were cleared and 4,990 mounds repaired, or 95 and 98 per cent. of the whole, respectively, at a cost of Rs. 4,074-6-1, or Rs. 3-11-1 per mile, as compared with Rs. 3-9-11 last year. The slight additional cost was owing to a larger amount of original work in connection with new boundaries laid down during the year under report.

Cost of maintenance.

In most divisions the expenditure under this head shows a tendency to decrease. But in Darrang the cost has increased from Rs. 2-5-5 to Rs. 9-2-10 per mile of boundary, the increase being reported to result from the fact that the boundary was not properly cleared last year; and it would appear from back records that the expenditure quoted in 1890-91 was abnormally low. The expenditure this year is also believed to have been affected by the inclusion of certain demarcation and valuation expenditure, necessitated in connection with a proposed addition to the Khalingduar reserve, part of which should have been debited to another head, A VIIIc.

Divisional details.

In the Gáro Hills also the cost has increased from Rs. 2-15-2 to Rs. 3-12-9 per mile. But it is explained by the Divisional Officer that this is due to the employment of voluntary, instead of forced, labour on the work, and to the fact that the former has to be paid for at a higher rate than the latter.

Inspections by Divisional Officers.

Of the total demarcated boundary, 573 miles, or about 49 per cent., were personally inspected and reported on by Divisional Officers.

## CHAPTER II.

### SURVEY, WORKING PLANS, AND PLANS OF OPERATIONS.

#### SURVEYS.

Goálpára Sâl forests.

18. The survey of the Goálpára Sâl forests by the Imperial Forest Survey is still in progress, but it is understood that it is intended to finish this work by the end of the present season. Mr. Reynolds, the Superintendent, has furnished the following information regarding the work completed during the past survey year ending the 30th September 1891, and supplied an index map of the district, illustrating the progress of the survey up to that date :

An area of 180 square miles was topographically surveyed on the 4-inch scale, and a record prepared of the distribution of the forests and classification of soils over that area. Triangulation was extended over an area of 1,106 square miles, and the positions of most of the pillars on the Bhutan boundary, from No. 50 to No. 66, were determined by trigonometrical fixings. The area traversed was 61 square miles.

Cost of survey

The total expenditure of the year on this work was Rs. 21,186. The traversing came to Rs. 31-5-0, the topographical work and record compilation to Rs. 44, and the triangulation to Rs. 7-8-0 per square mile respectively.

#### WORKING PLANS.

New plans, Goálpára.

19. The work of collecting information for compiling plans for the Goálpára Sâl forests was continued. Mr. Fisher was in charge up to the 13th June, when he was transferred to the Punjab The office of the division was then worked by the Officiating Conservator for the time being up to the 5th October, when it was handed over to Mr. Lloyd, who remained in charge of operations until the end of the year.

20. The classification of forests was completed by roughly demarcating 30 miles of new class lines ; and owing to the forest survey being unable to keep pace with the classification, it was found necessary, at the beginning of this working season, to reopen 126 miles of old class lines that had been originally demarcated in former years, a repetition of work which considerably delayed the enumeration of girth classes, on which it was hoped the whole energies of the working party would have been employed. The enumeration was not, therefore, commenced until January, between which date and the close of the year 93,641 trees were measured and classed on a larger number of sample areas, aggregating 2,549 acres, as shown in the following statement :

| Name of forest | Total area. | Area of sample plots. | Percentage of total area | Number of trees counted in sample plots. | | | | | Number of trees per acre of sample area | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | First class, over 6 feet. | Second class, 4½ feet to 6 feet. | Third class, 3 feet to 4½ feet | Fourth class 1½ to 3 feet. | Total. | First class. | Second class | Third class. | Fourth class. | Total. | |
| Panbari .. | 3,290 | 130 | 4 00 | 21 | 205 | 2,808 | 2,875 | 5,904 | 10 | 1 58 | 21 56 | 22 18 | 45 45 | Completed |
| Sankos | 28,800 | 896 | 3 45 | 311 | 1,383 | 7,964 | 11,879 | 21,539 | 35 | 1 55 | 8·90 | 13 27 | 22 96 | Ditto |
| Ripu .. | 41,652 | 1,187 | 2 84 | 518 | 2,178 | 12,267 | 27,597 | 42,546 | 44 | 1 83 | 10 30 | 23 25 | 35 84 | Ditto |
| Charaidaka | 1,730 | 42 | 2 42 | . | 10 | 418 | 1,959 | 2,387 | | 23 | 9 95 | 46 64 | 56 83 | Ditto |
| Guma | 2,980 | 295 | 9 90 | 21 | 154 | 3,672 | 17,419 | 21,266 | ·07 | ·52 | 12 43 | 58 98 | 72 00 | Not completed |

21. It is not yet known what proportion of the whole forest is represented by the Sâl-bearing area ; but, except in the case of Guma, this latter may, I think, be safely assumed not to exceed one-half the total area, in which case, the above proportions of sample to total area of Sâl may be doubled. But, even then, the figures in some cases would represent a too small percentage of the whole to justify our using them for calculating the present capability of these forests ; and the enumeration work over these areas,

with the exception of Guma, Panbari, and perhaps Sankos, must be supplemented with additional statistics It is, however, hoped that next season will see this work completed, not only for the forests above mentioned, but for the district as a whole, which, excluding the extensive *blank* known as the Bijniduar, contains a total area of 504 square miles of Sâl reserves. The compilation of the plans will then be an easy matter, provided we are supplied with the maps and area contents of the different forest classes.

22. The total cost of the work came to Rs. 15,693, as compared with Rs. 21,997 in the previous year. But no useful comparison can be made between the two expenditures, because, in the first place, the work of the two years was of a different description, secondly, the figures quoted in last year's report referred to the working season instead of to the financial year, and thirdly, the calculation arrived at in paragraph 25 of that report was inaccurate. For example, paragraph 22 states, correctly enough, that nothing was done but the demarcation of compartment lines, which in the following paragraph were shown to equal 22,939 chains, or 287 miles in length, and to cover a total area of 422 square miles. The work over this total area is then said to have been completed at Rs. 5-12-11 per square mile, or only Rs. 2,448. But the expenditure of the working season that should have been debited to this work came to about Rs. 15,700, or over Rs. 37 per square mile. As a matter of fact, the Rs. 5-12-11 per square mile only represented the cost of labour actually employed on the work, exclusive of Divisional Officer's pay and other incidental expenditure. I am satisfied that the work has been done cheaper this year than heretofore, but it is still very costly, and can be reduced in price by employing a larger staff under the Working Plans officer, and so enabling him to complete the necessary field work in a shorter time. This has scarcely been possible up to the present, as we have had to wait on the survey parties, who naturally have not been able to get over the ground as rapidly as the working plans.

Old plans, Gáro Hills.

23. The plans sanctioned for working the Dambu and Darugiri forests in the Gáro Hills have been in abeyance during the year, owing to the failure of the lessees to whom the working out of the timber was entrusted, and to the fact that up to date no other practical method of working these forests profitably has been devised.

Plans of operations

24. The usual programmes of work under this head were prepared and submitted by all Divisional Officers ; and, except in the case of timber operations in the Goálpára and Kámrúp Divisions, these schemes were acted up to with fair precision.

## CHAPTER III.

### PROTECTION AND IMPROVEMENT

#### ESTABLISHMENT.

Mr. Mann's retirement and appointment of a successor.

25. Mr. Mann, who had been in continuous charge of the Circle for 22 years, retired on the 1st May, and was succeeded by Mr. Jellicoe, who remained in charge as Officiating Conservator until the 31st August, when he was relieved by Mr. McKee, the present incumbent, transferred from Coorg.

Transfers.

26. The following transfers were made during the year under report :

Mr. E. E. Fernandez, Deputy Conservator, first grade, to Assam, with effect from 26th February 1891. Mr. Fernandez remained attached to the Forest School up to 24th May 1891, when his services were lent to the Baroda State.

With effect from 29th December 1891 :

Mr. James T. Jellicoe was transferred from Assam to Burma.

Mr. W. E. d'Arcy from the Punjab to Assam, but continued to officiate as Conservator in the North-Western Provinces.

Mr. A. J. Mein from Assam to the Punjab.

Mr. A. M. Reuther from the Punjab to Assam.

Mr. J. E. Barrett from the Punjab to Assam.

Mr. C. P. Fisher from Assam to the Punjab.

With effect from 2nd March 1892, Mr. J. L. Pigot from the Central Provinces to Assam, and *seconded*.

Mr. A. M. Reuther was retransferred from Assam to the Punjab.

27. Mr. Jellicoe, Deputy Conservator, obtained two months' privilege leave from the 4th December.

Leave.

Mr. Mein, Deputy Conservator, went on one year's furlough from 7th May.

Mr. Campbell, Officiating Deputy Conservator, rejoined from one year's furlough on the 16th November.

Mr. Young, Officiating Deputy Conservator, was granted three months' privilege leave from the 8th of June. This officer was also absent on deputation with the Manipur Field Force from the 4th April to 7th June 1891.

28. Mr. Long, Assistant Conservator, was appointed to the Circle from England, and joined on the 4th January 1892.

New appointment.

29. Messrs. Kelly, Jogesvar Sur, and Tarakisor Gupta, Sub Assistant Conservators, were promoted to Extra Assistant Conservators of the second, third, and fourth grades, respectively, under Government of India Resolution No. 18F., dated the 29th July 1891.

Promotions.

30. The divisional charges were held as exhibited in the following statement :

Detail of charges.

| Division. | Name of officer. | Date. From | Date. To |
|---|---|---|---|
| Cachar Division | Mr. H. G. Young ... | 1st April 1891 ... | 3rd April 1891. |
| | Babu Tarakisor Gupta ... | 4th „ „ ... | 7th September 1891. |
| | Mr. H. G. Young ... | 8th September 1891.. | End of year |
| Sylhet „ ... | Babu Tarakisor Gupta ... | Throughout the year. | |
| Goálpára „ ... | Mr. C. P. Fisher ... | 1st April 1891 ... | 13th April 1891. |
| | „ A. J. Mein ... | 14th „ „ ... | 2nd May „ |
| | „ C. P. Fisher ... | 3rd May „ ... | 11th „ „ |
| | „ D. P. Copeland ... | 12th „ „ ... | 15th November 1891. |
| | „ T. J. Campbell ... | 16th November 1891 | End of year. |
| Kámrúp „ ... | „ D. P. Copeland ... | Throughout the year. | |
| Darrang „ ... | „ W. F. Lloyd ... | 1st April 1891 ... | 30th September 1891. |
| | „ J. T. Jellicoe ... | 1st October 1891 ... | 3rd December „ |
| | „ D. P. Copeland ... | 4th December 1891 .. | End of year. |
| Nowgong „ ... | „ W. F. Lloyd ... | 1st April 1891 ... | 26th June 1891. |
| | „ J. C. Kelly ... | 27th June „ ... | End of year. |
| Sibságar „ ... | „ C. G. D. Fordyce ... | Throughout the year. | |
| Lakhimpur „ ... | „ J. T. Jellicoe ... | 1st April 1891 ... | 27th April 1891. |
| | „ C. G. D. Fordyce ... | 28th „ „ ... | End of year. |
| Gáro Hills „ ... | Babu Jogesvar Sur ... | Throughout the year. | |
| Working Plans „ ... | Mr. C. P. Fisher ... | 1st April 1891 ... | 13th June 1891. |
| | „ J. T. Jellicoe ... | 14th June „ ... | 26th September 1891. |
| | „ J. McKee ... | 27th September 1891 | 5th October 1891. |
| | „ W. F. Lloyd ... | 6th October 1891 ... | End of year. |

Examinations.

31. The following officers passed examinations during the year :

Mr. Lloyd in Assamese by the higher standard and in Land Revenue and Forest Law.

Mr. Kelly in Bengali by the lower standard.

Ranger Upendra Nath Kanjilal passed the final examination at the Imperial Forest School with credit, and was appointed to officiate as Vernacular Instructor at the school.

32. During the year, the scale of controlling officers was increased by Government of India Circular Resolution No. 30F. of the 29th December as follows :

Revised scale sanctioned.

| From | Rs. | To | Rs. |
|---|---|---|---|
| 1 Deputy Conservator, 1st grade, on | 900 | 1 Deputy Conservator, 1st grade, on | 900 |
| 1 „ „ of 3rd „ | „ 650 | 1 „ „ 2nd „ | „ 800 |
| 2 „ „ „ 4th „ | „ 550 | 1 „ „ 3rd „ | „ 650 |
| 2 Assistant „ „ 1st „ | „ 450 | 3 „ „ 4th „ | „ 550 |
| 2 „ „ „ 2nd „ | „ 350 | 2 Assistant „ 1st „ | „ 450 |
| 1 Sub Assistant Conservator | „ 200 | 1 „ „ 2nd „ | „ 350 |
| 2 „ „ „ | „ 150 | 1 Extra-Assistant Conservator | „ 350 |
| | | 1 „ „ „ | „ 250 |
| | | 1 „ „ „ | „ 200 |

The new scale allows twelve officers for the province, which admits of one officer being appointed for special work in connection with Working Plans. But there were never more than eight officers present at any time of the year, and for a large portion of the year only six officers were available, owing to leave and other causes. The province has been, therefore, somewhat shorthanded, which has necessitated two districts being worked by each of the officers in charge of the Lakhimpur and Kámrúp Divisions.

Subordinate staff.

33. It now only remains to improve the subordinate staff, as proposed by my predecessor and myself in letter No. 115A., dated the 4th October 1891. This is even a more urgent requirement, in my opinion, than increasing the strength of the controlling establishment, as the small revenue of this province can with difficulty stand any large increase under the latter head. Some very pertinent remarks on this subject were made by the Conservator of Bengal in his report for 1890-91, all of which apply *a fortiori* to the conditions prevailing in Assam. Forest service is not appreciated here, and we are dependent on Behgalis for the grades of ranger and forester; and if Bengal finds it difficult to obtain good men on the pay available in that province, it must be obvious that we must find it still harder to obtain fitting subordinates of the same class on a scale of pay slightly less than the average quoted by Mr. Dansey, who complains that his rangers are paid an average of Rs. 56 per month, as compared with Rs. 65 in the North-Western Provinces and Oudh, Rs. 70 in the Central Provinces and Punjab, and Rs. 74 in Burma. But in Assam our rangers are paid an average of only Rs. 55 a month. And for the whole province, containing 9,959 square miles of forest, we are allowed only 13 rangers and 46 foresters, permanent and temporary, which gives—

766 square miles per ranger.
216 „ „ „ forester.

In their review on the Assam Forest Report for 1890-91, the Government of India remarked in paragraph 6 that strengthening the subordinate establishment as proposed would doubtless prove of great advantage in the management and working of the forests. Up to date, however, no orders have been received on this important point, to which it is desired again respectfully to draw attention.

## General Protection and Breaches of the Forest Law

Cases brought before the courts.

34. Form 50 shows that 171 new cases were brought before the courts, as compared with 115 cases in the previous year.

At the commencement of the year, there were 16 cases pending, and 8 cases remained pending at the close of the year in connection with current transactions. The courts, therefore, disposed of 179 cases, in 141 of which, or 78 per cent., convictions were obtained, as compared with 73 per cent. last year.

The total number of persons concerned in the cases disposed of were 424, of whom 336, or 79 per cent., were convicted.

Cases settled under section 67

35. The number of cases disposed of under section 67 of the Forest Act was 260, as compared with 219 in the previous year. The amount realised on compounding the above was Rs. 2,292, or Rs. 8-13-1 per case, as compared with Rs. 8-15-11 in 1890-91.

Undetected cases.

36. The total number of undetected cases, as reported, were 9 only.

Explanation of increase in cases

37. The increase of 56 cases brought before the courts was principally due to unauthorised fellings in the Sylhet district, where the unsettled state of the forests induces the people to remove produce without license, and where, until comparatively of late years, our forest rules have not been energetically enforced. As many as 110 cases were disposed of by the courts in this district alone, in which convictions were obtained in 93 cases, or 84 per cent., so that, apparently, the Divisional Officer was legally justified in his procedure. But, considering how ill-defined Government rights have been in this district, and that the forests are undemarcated, it would have been more judicious to have settled a large proportion of these cases under section 67.

The increase of 41 compounded cases was due to more energetic supervision on the part of the protective staff in the Lakhimpur and Nowgong districts, in both of which there was a large increase of such cases, as compared with the former year.

If, however, the figures under review be compared with those of 1889-90, it becomes evident that there was no abnormal increase in offences of the present year requiring special explanation, *e.g.*—

| | 1889-90. | 1890-91 | 1891-92 |
|---|---|---|---|
| Court cases ... ... ... | 163 | 115 | 171 |
| Compounded cases ... ... ... | 285 | 219 | 260 |

Indeed, in Cachar, Goálpára, and Kámrúp, the figures for the past three years show a continuous and rather suspicious falling off in cases settled under section 67; and as no equal corresponding increase has taken place under cases prosecuted, there would appear to be, in the above districts, either a decided decrease in the tendency of the people to commit forest offences, or supervision has been faulty. The attention of the Divisional Officers has been directed to this point.

New Forest Regulations.

38. It may be noted here that an important Regulation came into force during the year, called the Sylhet *Jhúm* Regulation of 1891, whereby Government has proclaimed its intention of commuting all the shifting and ill-defined forest rights of *jhúm*, *gurkati*, *tippera*, &c., that up to date have been claimed, and, in many cases, exercised over large areas of forest waste land in this district, and which have been an important stumbling block in the way of forming reserves, or of granting a clear title to land for cultivation therein. When these forest rights are duly extinguished, we may hope to be able to constitute some of the present so-called *protected* areas into permanent forest estates, and supply a rather urgent requirement of the most densely-populated district of this province.

39. Assam Forest Regulation of 1891 also received the sanction of the Government of India during the year; but it did not come into force in substitution of Act VII of 1878 and Act V of 1890 until 1st April 1892.

## Forest Fires.

General remarks.

40. The detailed result of fire conservancy for the year will be found in attached Form No. 51.

Arrangements were made to protect 730,556 acres, or practically the same area as last year, the 7 acres in excess being owing to a correction of measurement in the Riatkhwan reserve. But of this area, only 642,000 acres, or 88 per cent., were protected, 88,556 acres, or 12 per cent., having been burnt. The cost of the work divided over the protected area came to Rs. 19,483, or Rs. 19-6-9 per square mile.

41. The above results in regard to area compare unfavourably with last year, when 93·71 per cent. of the forest was successfully protected, but at the slightly higher cost of Rs. 19-7-11 per square mile.

District details.

42. The following statement gives in abstract the details of the fires that occurred in each district There were 30 fires in all; and it would appear from the Divisional Officer's reports that they may be attributed to the following causes:

| District | To line burning accidents. | | Crossing from outside. | | To *jhum* cultivation | | Incendiarism | | Unknown causes. | | Total | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. of fires. | Area burnt. | No. of fires. | Area burnt. | No. of fires. | Area burnt. | No. of fires. | Area burnt. | No. of fires. | Area burnt. | No. of fires. | Area burnt | Area attempted | Percentage of failures. |
| | | Acres. | | Acres. | | Acres. | | Acres. | | Acres | | Acres. | Acres. | |
| Goálpára ... | 4 | 31,460 | 3 | 25,696 | ... | ... | ... | ... | 1 | 22,400 | 8 | 79,556 | 422,549 | 18·83 |
| Kámrúp ... | 1 | 500 | 1 | 2,150 | ... | ... | ... | ... | ... | ... | 2 | 2,650 | 114,865 | 2·31 |
| Darrang ... | 1 | 10 | 1 | 50 | ... | ... | 2 | 110 | ... | ... | 4 | 170 | 18,542 | 0·90 |
| Nowgong ... | .. | ... | ... | ... | 1 | 1,440 | ... | ... | 2 | 1,449 | 3 | 2,889 | 84,760 | 3·40 |
| Khási Hills ... | 2 | 128 | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 128 | 4,585 | 2·79 |
| Gáro „ .. | 4 | 552 | 6 | 2,610 | 1 | 1 | ... | ... | ... | ... | 11 | 3,163 | 85,255 | 3·71 |
| Total ... | 12 | 32,650 | 11 | 30,506 | 2 | 1,441 | 2 | 110 | 3 | 23,849 | 30 | 88,556 | 730,556 | 12·12 |

43. The season was distinctly unfavourable for this work. The rains of 1891 were not only from 15 to 25 per cent. short of the average fall, but they ceased altogether on an early date in September, and failed during the cold season, when heavy showers are generally experienced in Assam. The forests, in consequence, rapidly dried up, and the dangerous season commenced quite a month or six weeks earlier than usual. But, except in Goálpára, as will be seen on reference to the above statement, the work was decidedly successful, the maximum success being attained in Darrang, where the failures amounted to less than 1 per cent., while in all districts, with the exception above noted, the failures were less than 4 per cent.

Goálpára fires.

44. The same remarks do not, however, apply to Goálpára, where 18·83 per cent. of the forests were burnt. In this district, protection from fire is more difficult than elsewhere, owing to the extreme dryness of the Sâl tracts, and to the extensive grass areas, which are so intimately mixed up with them. During the hot months, these forests are nearly waterless, and

they contain no natural barriers, like most other forests, to assist in arresting the progress of fires that may obtain ingress. Such forests, to be efficiently protected, should be intersected with numerous broad check lines to control and limit the spread of fires; but there is a deficiency of such safeguards in many of the Goálpára reserves, some of which contain compact blocks, varying from 40 to 60 square miles in extent, and which must almost certainly be traversed throughout by any fire that once becomes well established inside them. These remarks specially apply to the Bijni reserve, containing 99,980 acres, mostly grass land, of which 51,200 acres, or 51 per cent., were burnt this season; but they are also applicable to the Sankos and Chirang blocks.

45. It must, however, be noted that 31,460 acres of the total failures in this district were burnt, owing to accidents while line tracing, that is to say, that 39 per cent. of the fires were due to preventible causes. And in several cases, it was reported that these fires resulted from the burning of lines in the middle of the day, a practice against all rule and highly dangerous in the Assam forests, where the grass, owing to its great height, causes a conflagration, when once ignited, that no ordinary precautions at that time could control. In connection with such cases, it was found necessary to severely punish several of the subordinate staff; and it is hoped that in future an improvement will be noticed in this respect; for it is evident from a reference to back reports that many serious fires in the province are traceable to carelessness on the part of the firing parties, while 40 per cent. of all the fires that occurred during the season under review were directly owing to this cause.

46. The only other fires necessary to notice took place in the Bijni and Sankos forests. In the first, 22,400 acres were burnt, it is suspected on very good grounds, by a survey party working under Mr. Litchfield. The men comprising the party were arrested while making their way back to headquarters by a very circuitous route, and were prosecuted, but acquitted for want of direct evidence. In the Sankos reserve the fire is reported to have spread from one of the Bengal reserves northwards into the Bhutan Hills, where, crossing the Sankos river, which in that locality is relatively narrow, it spread southwards, and crossed the boundary of the reserve at a spot where the fire line is faulty, owing to its running through forest and being difficult to keep clear of falling leaves, &c. It would, of course, be conducive to future protection if the northern boundary between Assam and Bhutan were well cleared to a width of 80 or 100 feet, but as it travels through heavy forest, the cost of the work would be considerable. The matter, however, will have careful attention.

47. One very satisfactory feature in this province is the small number of fires caused maliciously by the adjoining population or others. During the year under report, only two such cases came to notice, and in one of these, the offender was a drunken forest guard. Both cases occurred in the Darrang district, and the offenders were prosecuted and punished with imprisonment.

Cost of fire protection in different divisions.

48. The average cost per square mile of fire protection in the different divisions is given below:

| Name of division. | 1890-91. | | | | | | 1891 92. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Of area attempted. | | | Of area protected. | | | Of area attempted. | | | Of area protected. | | |
| | Rs. | a. | p | Rs. | a. | p. | Rs. | a | p. | Rs | a. | p. |
| Goálpára ... ... ... | 17 | 8 | 4 | 19 | 7 | 11 | 14 | 15 | 11 | 18 | 7 | 7 |
| Kámrúp ... ... ... | 20 | 1 | 7 | 20 | 1 | 7 | 27 | 2 | 10 | 27 | 13 | 1 |
| Darrang ... ... ... | 14 | 3 | 10 | 14 | 12 | 0 | 19 | 15 | 9 | 20 | 2 | 8 |
| Nowgong ... ... ... | 6 | 15 | 0 | 6 | 15 | 10 | 4 | 5 | 8 | 4 | 8 | 2 |
| Khási and Jaintia Hills ... ... | 157 | 6 | 10 | 157 | 6 | 10 | 164 | 4 | 8 | 169 | 0 | 2 |
| Gáro Hills ... ... ... | 24 | 10 | 8 | 25 | 0 | 7 | 17 | 12 | 7 | 18 | 7 | 7 |

There was a decrease of expenditure in Goálpára, Nowgong, and the Gáro Hills, and an unsatisfactory increase of expenditure in Kámrúp, Darrang, and the Khási Hills, which is not explained by the officers in charge of those divisions, but which was partly owing to the appointment of fire patrols earlier than usual, owing to the exceptionally dry season. Regarding the excessive cost of protecting the Khásia pine forests in the neighbourhood of Shillong, it has been explained in former reports that extraordinary precautions have to be taken to prevent fires in these forests, as they are situated just above and to windward of the station, and might, if burnt, be the cause of considerable damage and loss of property.

## Natural Reproduction.

49. Natural reproduction has been for years past, and is still, reported by every Divisional Officer in this province to be a conspicuous feature of his forests; and no doubt the conditions in Assam are very favourable for fostering this important factor in forest improvement.

Evergreen forests.

In the evergreen reserves of Northern Assam, the permanent stock of good timber is fairly ensured by only allowing trees of a certain minimum girth to be felled; and in some of the forests inspected by the Officiating Conservator when in camp, very good natural reproduction was observed of such trees as Nahor (*Mesua ferrea*), Sam (*Artocarpus chaplasha*), Poma (*Cedrela toona*), and Ajhar (*Lagerstrœmia reginæ*).

Goálpára Sâl forests.

50. In the Sâl forests of Goálpára and the Gáro Hills, seedlings were also noticed to be fairly plentiful in all likely places; and the Sâl forest constantly exhibits sure, if gradual, signs of encrpaching on the adjoining grass *maidans*, and especially of spreading and establishing itself in the neighbouring belts of mixed deciduous forest. This latter feature is very marked in the strip of mixed forest that stretches along the foot of the Bhutan Hills, and divides these latter from the extensive Sâl blocks of the Eastern Duárs. In this locality, the Sâl is gradually, but most undoubtedly, replacing the dry deciduous forest; and although relatively scarce in quantity, its seedlings are far more conspicuous than those of any other single species, except perhaps Makriah (*S. Wallichii*), which is always, in these forests, a constant companion of the Sâl.

Gáro Hills Sâl forests.

51. In some of the older forests of the Gáro Hills, however, seedling reproduction is disappointing. In many parts of Dambu it is almost entirely absent, a fact which may be owing to the very overmature condition of the high forest and seed-bearing trees, and which will entail the very greatest care in the selection of trees when the opportunity arrives for working this forest. The latter fact is made clear in those places where timber was felled by contractors a few years back, when the work was evidently carried out to meet the convenience of the lessees and with little or no regard for sylvicultural requirements, in consequence of which, the forest, which consisted almost entirely of mature trees, has been clear felled, and its place taken by a dense tangled mass of useless undergrowth, in which Sâl is conspicuous by its absence.

Kámrúp Sâl forests.

52. In Kámrúp, seedling reproduction inside the forests inspected is also nearly absent, but this is owing to the dense crop of poles and trees on the ground, which prevent the growth of the young plants. A large proportion of these Kámrúp Sâl forests have the appearance of being a regrowth from older forest, which at one time was felled for *jhúmung* purposes; and the same remark is applicable to some of the Goálpára Sâl, especially in the Sidli and Guma reserves.

## Artificial Reproduction.

53. Full details of work done under this head during the year will be found in Form No. 52.

Chardnar rubber plantation, Darrang.

54. In last year's report, paragraph 59, it was stated that the Chardnar plantation had been extended by 225 acres, of which 50 acres had been planted before the close of the year. During the year under report, the balance of the above, or 175 acres, were put out with 2,502 plants, constituting Compartment No. 17; and 664 vacancies, or the equivalent of 39 acres, were resupplied with plants in Compartment No. 16. A further extension of 50 acres was also opened out, and prepared with mounds and stakes for planting in 1892-93.

The cost of the above work came to Rs. 4,898, as compared with an expenditure of Rs. 10,089 last year. But it is impossible to make any comparison between the cost of work for the two years, as no details are available for either year, showing how the expenditure was divided over upkeep, new planting, and new extension for future planting; and as the work under each head differed widely in the two years, it is not practicable to debit any particular head with its own expense and compare it with that of the previous year.

In regard to the work of this year, however, any comparison would unfortunately have been unnecessary, for the great portion of it turned out a failure. In December, when examined by the Officiating Conservator, Compartment No. 17 (175 acres) did not contain 10 per cent. of plants alive, while No. 16 had then lost 25 per cent., and Compartment No. 12, which had been planted in 1885-86, 75 per cent. of their contents. Practically, the money spent on this work had been nearly unproductive,—a result

attributed to the mistake, perhaps unavoidable, of entrusting the work to inexperienced hands, who had probably never seen a rubber tree before in their lives. The Divisional Officer, the ranger, and the forester were all quite new to the division and to planting work; and, owing to a short rainfall (27 per cent. below the average), they had a difficult season to contend with. Planting was also continued until too late in the season, and the important work of constant inspection must have been neglected.

Compartments 12 and 17 must be completely replanted, while 15 and 16 require to be supplied with at least 25 per cent. of plants. This work will be done in the season of 1892, but it will largely curtail any further extension of the plantation during the year.

The total number of casualties are accounted for as follows:

| | |
|---|---|
| Broken by elephants ... ... ... ... | 478 |
| " " wind ... ... ... ... ... | 180 |
| Natural death ... ... ... ... ... | 2,121 |
| Total ... ... ... ... ... ... | 2,779 |

Compilation of Form No. 52.

55. It may be noted here that the practice has been to take credit in Form No. 52 as additions to the plantation of all areas that have been opened out for planting. For example, in last year's form 225 acres were shown as added to the previous area, although only 50 acres of that addition had been planted. This practice will be discontinued; and in future, additions will include only such areas as have been fully planted up. During the year under report, therefore, no additions have been shown, and it would probably have been correct to make a large deduction from the opening balance area on account of failures of the year.

Bamuni Hill Rubber plantation.

56. No expenditure was incurred on this area. When inspected in December, the trees were found to be interlaced on all sides, and their development greatly retarded in consequence. Orders were given to tap every alternate tree to death.

Kulsi plantation, Kamrup

57. No extensions were made to this plantation, which was maintained at a cost of Rs. 562, or Re. 1-9 per acre. The plantation was looking well when inspected in April. The rubber and teak trees were especially healthy; but there is no room in this locality for extending the plantation without clearing away good Sâl forest, and at present, at all events, our efforts in this direction should be concentrated on work at Charduar.

Makum teak plantation, Lakhimpur.

58. Mr. Fordyce reports that the two acres of experimental teak plantation at Makum no longer requires any attention. Twenty dominant trees were selected and measured, the two largest, which are only 16 years old, proving to be of dimensions as follows:

| | |
|---|---|
| Height ... ... ... ... ... | 82 feet. |
| Girth ... ... ... ... ... | 3 " 6 inches. |
| " ... ... ... ... ... | 3 " 2 " |

These measurements beat results obtained at Nilambur on the Madras West Coast.

59. Practically, the abovenoted areas are the only real plantations in Assam. All other works of this nature come under the head of *cultural operations*, which, with one exception, have been carried out on such a very small scale as scarcely to require separate mention.

Nambor plantation, Sibsagar.

60. The exception noted is the Nambor forest, where 168 acres of forest land have been sown up successfully with Nahor, Toon, and Ajhar, the cost of maintaining which during the year was Rs. 239. But as this experiment has been carried out in forest containing plenty of these particular timbers, forest too, which up to date has been practically beyond a market demand, and in which the natural reproduction of the above trees, especially of Nahor, is as good as could be wished for, it is not apparent why the work in question was undertaken. The site for such an operation should have been in some forest more accessible to the general market, and where it was desired to increase the proportion of the species sown. The Nambor reserve answers neither of these *desiderata*, and after inspection, therefore, the Officiating Conservator decided to restrict all future work on this area to climber cutting and keeping it clear of weeds where necessary.

Dambu Sâl sowing, Gáro Hills

61. A small experiment was tried in the Dambu forest of sowing up with Sâl seed an area covered with terai bamboo (*Melocanna bambusoides*). The bamboo was clear felled and burnt, and the seed then sown in pits three feet apart, placed in lines ten feet apart. Where sufficient

attention had been given to weeding the plants in the rains and cold weather, the experiment succeeded remarkably well ; but it was too expensive, having cost over Rs. 50 per acre. This work is to be extended, but on different lines, which will largely reduce the above cost.

Sowing up *jhúm* land.

62. Further attempts were made to sow up *jhúm* lands on the Burma system, but with little success. And as long as land is so plentiful as it is in Assam, and there is so little desire on the part of the people to obtain land inside the reserves for *jhúming* purposes, it is scarcely to be expected that these experiments can meet with any large measure of success. But they will be persevered in, because perhaps in the future, as the open waste becomes restricted, we may be able to obtain better results.

Cachar.

Mr. Young reports that 12 acres of *jhúm* land in the Dhaleswari reserve was successfully sown by Tipperahs with good timber species.

Gáro Hills.

The Extra Assistant Conservator reports that four acres were sown in the Raja Simla reserve, with partial success.

Kámrúp.

Mr. Copeland reports that the *jhúm* of 47 acres, mentioned in last year's report, that was sown with Burma teak seed contains 802 plants 2 feet high ; that the area of 132 acres of similar land sown with Sâl seed in 1890, now contains 4,566 seedlings, some of which are three feet high ; and that an area of 5 acres planted with Poma (*Cedrela toona*) in 1887-88 contains 1,096 plants averaging 18 feet in height.

## Improvement Fellings.

Goálpára.

63. The Divisional Officer reports a certain amount of work under this head to have been performed in the Guma and Sidli reserves. In the former, 434 Sâl logs, yielding 3,306 cubic feet, were extracted, and sold for Rs. 905, or 4 annas 4 pies per cubic foot ; and in the latter, 281 logs of reserved kinds, yielding 2,775 cubic feet, were sold for Rs. 421, or 2 annas 6 pies per cubic foot. These rates, as they represent net prices, would have been fairly good, if the operation they resulted from could justly have been termed improvement fellings ; but there is reason to think the work was not properly supervised, and that a good deal, if not all, the timber extracted under this head, was removed without any previous marking or selection by the range officer.

Kámrúp.

In Kámrúp, 459 distorted trees were marked departmentally and removed by purchasers ; but the Divisional Officer gives no separate details of their contents or the price realised by their sale.

## Climber-cutting.

Goálpára.

64. This work was confined to the Goálpára Division, where 5,760 acres in the Guma reserve were cleared of climbers at a cost of Rs. 440. But a great deal of such work still remains to be done in this forest, parts of which, when inspected in March, were noticed to be infested by enormous climbers, showing that very little attention had been given to their extirpation in past years. The same remark applies to the Sankos and Ripu reserves, and the attention of the Divisional Officer was drawn to the immediate necessity of getting rid of this forest nuisance. The want of a sufficient supply of local labour is said to be the chief difficulty in the way.

Climber-cutting is also much required in the forests, especially the Sâl forests, of Darrang and the Gáro Hills.

## Roads.

65. In Sylhet, Goálpára, Sibságar, Lakhimpur, and Nowgong no new roads were made, but existing roads were kept in repair at a cost shown in the statement given below.

Cachar.

In the Cachar Division, a commencement was made by laying out 1½ mile of new road to connect the Katakhal reserve with the open country and the Rengti public road. This work will be continued as funds become available.

Kámrúp.

In this district, the work on the Rani road mentioned in last year's report was continued, one mile being formed and embanked, while some blasting and stone-walling was done on a section of the road running over the hills. The cost was paid by the Local Board, but the work was supervised by Mr. Copeland, the Divisional Forest Officer. All other roads

in this division were well repaired, the Kulsi road having been much improved, especially where it crosses a small hill near the plantation, where it was found necessary to employ 50 lbs. of dynamite for clearing a way through the rocks.

Darrang.

A short section of new road was opened out in the Balipara reserve at a cost of Rs. 32 to connect the new rubber extension with the former planted area. It was also found necessary to reform the Dhekrignon road leading from the forest bungalow to the plantation, to rebuild the bridge over the Jorabor stream, and to divert the course of this latter to prevent its cutting away the road. The cost on this work came to Rs. 1,100-12-3, but it is hoped the Local Board will bear a part of the expense, and make a refund to the Forest Department, as the road is of public convenience as well as a departmental requirement. All other forest roads in this division were repaired.

Gáro Hills.

The largest expenditure in this division was incurred on repairing the Damra-Dambu road, which came to Rs. 1,084. But this communication was still in a deplorable condition when inspected in April last, shortly after and during certain heavy showers of rain that fell about that time. In its present condition, this road is a white elephant to the department, for it costs yearly a large sum of money to prevent it being washed entirely away, and it could not stand any considerable timber traffic. On the ghat section especially, the steepness of the gradients and sharp curves would preclude the carting of anything except very small logs or scantlings. The road has never been properly drained; and as the hill side on which it travels is very rotten and disintegrated, the rains either cover and block it up with landslips, or wash it bodily over the adjoining *khud*. Before the Dambu and Darugiri forests can be effectively worked, it will be necessary to undertake, under professional guidance, a considerable extra outlay in making this road an efficient outlet for their timber contents.

Expenditure on roads.

The following statement shows the total cost incurred under this head :

| | Rs. | a. | p. |
|---|---|---|---|
| Cachar ... ... ... ... ... | 515 | 10 | 6 |
| Sylhet ... ... ... ... ... | ..... | | |
| Goálpára ... ... ... ... ... | 33 | 4 | 0 |
| Kámrúp ... ... ... ... ... | 1,012 | 14 | 3 |
| Darrang ... ... ... ... ... | 1,513 | 6 | 3 |
| Nowgong ... ... ... ... ... | 24 | 8 | 0 |
| Sibságar ... ... ... ... ... | 452 | 6 | 0 |
| Lakhimpur ... ... ... ... ... | 187 | 5 | 0 |
| Gáro Hills ... ... ... ... ... | 1,084 | 2 | 7 |
| Total ... ... .. ... ... | 4,823 | 6 | 7 |

## Buildings.

66. No new building of importance was constructed during the year. But the usual annual repairs were carried out at a total cost of Rs. 8,917 divided over the different divisions, as exhibited below :

| | Rs. | a. | p. |
|---|---|---|---|
| Direction Division ... ... ... ... | 1 | 4 | 0 |
| Cachar " ... ... ... ... | 1,028 | 11 | 0 |
| Sylhet " ... ... ... ... | 492 | 4 | 6 |
| Goálpára " ... ... ... ... | 1,256 | 10 | 7 |
| Kámrúp " ... ... ... ... | 1,423 | 6 | 0 |
| Darrang " ... ... ... ... | 289 | 7 | 0 |
| Nowgong " ... ... ... ... | 231 | 14 | 0 |
| Sibságar " ... ... ... ... | 815 | 7 | 9 |
| Lakhimpur " ... ... ... ... | 2,058 | 2 | 0 |
| Khási and Jaintia Hills Division ... ... ... | 70 | 5 | 4 |
| Gáro Hills Division ... ... ... ... | 1,249 | 3 | 7 |
| Total ... ... ... ... ... | 8,916 | 11 | 9 |

# CHAPTER IV.

## YIELD AND WORKING.

### YIELD.

67. The total outturn of the year expressed in cubic feet compares with the previous year as follows :

Summary of removals from forests, Form 54.

| Class of forest. | 1890-91. | | | | | | 1891-92. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Timber in the rough, logs. | Timber in the rough, poles. | Sawn or squared timber | Miscellaneous. | Fuel. | Total. | Timber in the rough, logs. | Timber in the rough, poles. | Sawn or squared timber. | Miscellaneous. | Fuel. | Total. |
| From reserved forests .. .. | 566,493 | 118,873 | 453 | 26,518 | 451,776 | 1,164,112 | 743,067 | 96,843 | 23 | 30,685 | 431,925 | 1,302,493 |
| " protected " .. .. | 22,643 | 12 | 119 | 18,143 | 565,924 | 606,841 | 15,157 | 1,320 | 598 | 11,980 | 789,840 | 829,195 |
| " unclassed " .. .. | 909,038 | 26,947 | 111,052 | 127,745 | 1,608,973 | 2,783,755 | 957,227 | 48,211 | 135,862 | 195,067 | 1,387,223 | 2,723,590 |
| Total .. .. .. .. | 1,498,174 | 145,831 | 111,624 | 172,406 | 2,626,673 | 4,554,708 | 1,725,751 | 146,374 | 136,483 | 237,682 | 2,608,988 | 4,855,278 |

The above outturn was removed from the forests by the following agencies :

| Agency of exploitation. | 1890-91. | | | | | | 1891-92. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Timber in the rough, logs. | Timber in the rough, poles. | Sawn or squared timber. | Miscellaneous. | Fuel. | Total. | Timber in the rough, logs. | Timber in the rough, poles. | Sawn or squared timber. | Miscellaneous. | Fuel. | Total. |
| By Government agency .. .. | 22,401 | 905 | 287 | 10,855 | 5,460 | 39,908 | 64,911 | 566 | 71 | 7,923 | 5,902 | 78,374 |
| " purchasers .. . .. | 1,018,789 | 70,886 | 111,287 | 124,382 | 174,759 | 1,497,053 | 1,272,611 | 88,270 | 136,412 | 128,872 | 191,662 | 1,820,555 |
| " free grants .. .. .. | 460,034 | 74,040 | .... | 37,169 | 2,446,454 | 3,017,697 | 388,221 | 57,538 | .. | 101,187 | 2,408,824 | 2,955,769 |
| Total .. .. .. .. | 1,498,174 | 145,831 | 111,624 | 172,406 | 2,626,673 | 4,554,708 | 1,725,751 | 146,374 | 136,483 | 237,682 | 2,608,988 | 4,855,278 |

There was, therefore, a total estimated net increase in the outturn of the year amounting to 300,570 cubic feet, resulting from a greater demand on the reserved and protected forests of 360,735 cubic feet, and a reduced demand on the unclassed forests of 60,165 cubic feet. And it would appear that the increased demand on the reserves and protected forests was owing partly to a development of departmental operations, which accounted for 39,316 cubic feet, but principally to a large increased removal of timber and fuel by purchasers, amounting to 323,482 cubic feet. The smaller demand on the unclassed forests was more than covered by a net decrease under free grants, amounting to 62,228 cubic feet.

68. It may be noted here that the increased demand on reserves and protected forests is reported to be due to the gradual failure of the unclassed wastes to supply the calls hitherto made on them ; and the following figures of yield for the four last years may be quoted in support of this statement, *viz.*,—

| | | | | | | |
|---|---|---|---|---|---|---|
| Outturn of unclassed forests, | 1888-89 ... | 3,217,324 cubic feet. | | | | |
| Ditto | ditto | 1889-90 ... | 3,053,572 cubic feet, or a falling off of | 163,752 | cubic feet. | |
| Ditto | ditto | 1890-91 ... | 2,783,755 " " " | 269,817 | " | " |
| Ditto | ditto | 1891-92 ... | 2,723,590 " " " | 60,165 | " | " |

But part of this gradual falling off has no doubt been owing to the transfer of unclassed forest area to reserves and cultivation, and the net falling off in the yield of the former may still be unimportant.

It is also interesting to note that the reserves and protected forests, which together represent 44 per cent. of the total provincial forest area, are now supplying 41 per cent. of the total timber demand. This latter would, therefore, appear to be very equally distributed over our forests as a whole.

69. Form 55 shows that the value of the minor forest produce removed during the year was Rs. 78,415, as compared with Rs. 74,913 in the previous year.

Minor forest produce outturn.

## WORKING.

### *Departmental Operations.*

General remarks.

70. The following comparative statement exhibits the divisional working under this head for the past two years. There were 78,974 cubic feet of timber and fuel removed from the forests by departmental agency, as compared with 39,658 cubic feet last year :

| Name of division. | 1890-91. | 1891-92. | Increase. | Decrease. |
|---|---|---|---|---|
| | Cubic feet. | Cubic feet. | Cubic feet. | Cubic feet. |
| Cachar Division ... ... | 1,347 | 3,561 | 2,214 | ..... |
| Goálpára „ ... ... | 16,462 | 53,919 | 37,457 | ..... |
| Kámrup „ ... ... | 10,025 | 4,373 | ..... ... | 5,652 |
| Darrang „ ... ... | 900 | 1,800 | 900 | ..... |
| Sibságar „ ... ... | 10,170 | 8,095 | ..... | 2,075 |
| Khási and Jaintia Hills ... | ..... ... | 62 | 62 | ..... |
| Gáro Hills ... ... | 754 | 7,164 | 6,410 | ..... |
| Total ... ... ... | 39,658 | 78,974 | 47,043 | 7,727 |

### *Explanations by Divisions.*

Cachar.

The timber operations in this division were limited to the collection of drift wood, and showed an increase on the previous year of 2,214 cubic feet.

Goálpára.

The increase in this division was owing to the extension of the experiment of working out timber departmentally, as opposed to the former method of working the forests through middlemen.

Darrang.

Departmental work was confined to removing timber for making a bridge on the Dhekrigaon road, and for building a forester's quarters in the Charduar reserve, which absorbed the total outturn as shown above.

Gáro Hills.

In this division, a first experiment was tried of working out timber from certain reserves on a system of half profits, Government entering into partnership with the working duffadárs. During the year, 5,423 cubic feet (of which, however, 763 cubic feet were subsequently burnt) were brought to the selling depôt of Mornoi on the Brahmaputra under this system, but the result of the experiment is not yet known, as the wood remains unsold.

Khási Hills.

The figures in the above statement represent a small quantity of dead wood removed from the pine forests of Shillong.

Kámrúp

It is explained by the Divisional Officer that the smaller outturn under this head is nominal, and arises from a mistake in the method of measuring up last year's timber, which gave an excess of 2,000 feet.

Sibságar.

Departmental operations in this division were confined chiefly to fuel, of which rather less was worked out than in the previous year, as the Divisional Officer seems doubtful regarding the success of the experiment.

### *Removal of Produce by Purchasers.*

General remarks.

71. Comparative details under this head for each division are given in the following statement. There was a net outturn of 323,482 cubic feet more than last year :

| Name of division. | 1890-91. | 1891-92. | Increase. | Decrease. |
|---|---|---|---|---|
| | Cubic feet. | Cubic feet. | Cubic feet. | Cubic feet. |
| Cachar Division ... ... | 217,962 | 321,697 | 103,735 | ..... |
| Sylhet „ ... ... | 81,969 | 94,916 | 12,947 | ..... |
| Goálpára „ ... ... | 221,972 | 187,288 | ..... | 34,684 |
| Kámrúp „ ... ... | 168,848 | 158,205 | ..... | 10,643 |
| Darrang „ ... ... | 99,201 | 252,766 | 153,565 | ..... |
| Nowgong „ ... ... | 83,496 | 106,910 | 23,414 | ..... |
| Sibságar „ ... ... | 89,870 | 116,955 | 27,085 | ..... |
| Lakhimpur „ ... ... | 287,111 | 311,771 | 24,660 | ..... |
| Khási and Jaintia Hills Division. | 12,782 | 9,055 | ..... | 3,727 |
| Gáro Hills Division. ... | 233,842 | 260,972 | 27,130 | ..... ... |
| Total ... ... ... | 1,497,053 | 1,820,535 | 372,536 | 49,054 |

Explanation by divisions. Timber and fuel.

In the Cachar, Sylhet, Darrang, Nowgong, Sibságar, Lakhimpur, and Gáro Hills Divisions, the increased outturn represents an enhanced demand on the Government forests for timber and fuel, as compared with last year, amounting to the large quantity of of 372,536 cúbic feet. But the outturn of 1890-91 was below the yield of the previous year, owing to a disturbed frontier ; and the figures under review prove that the timber trade has not only settled down again, but has outstripped that of any former year.

The decreased outturn of 45,327 cúbic feet shown in Goálpára and Kámrúp was entirely owing to certain of the forests in those districts being closed against purchasers ; and the small decrease of 3,727 cubic feet in the Khási Hills was owing to a smaller sale of firewood from the pine forests of Shillong, from which in the former year a large quantity of trees were removed that had been killed by the fires of previous years.

*Free Grants.*

72. The following statement shows that 2,955,769 cubic feet of timber, &c., were removed from the forests free of payment, or 62,228 cubic feet less than in the previous year, the decrease representing the net result of considerable fluctuations in nearly all divisions :

| Name of division. | 1890-91. Cubic feet. | 1891-92. Cubic feet. | Increase. Cubic feet. | Decrease. Cubic feet. |
|---|---|---|---|---|
| Cachar Division ... | 68,764 | 102,264 | 33,500 | ... |
| Sylhet „ ... | 768,012 | 941,212 | 173,200 | ... |
| Goálpára „ ... | 651,080 | 525,800 | ... | 125,280 |
| Kámrúp „ ... | 241,585 | 156,223 | ... | 85,362 |
| Darrang „ ... | 401,364 | 287,752 | ... | 113,612 |
| Nowgong „ ... | 100,590 | 414,108 | 313,518 | ... |
| Sibságar „ ... | 762,354 | 431,142 | ... | 331,212 |
| Lakhimpur „ ... | 23,528 | 96,268 | 72,740 | ... |
| Khási and Jaintia Hills Division. | ... | 1,000 | 1,000 | ... |
| Gáro Hills „ ... | 720 | ... | ... | 720 |
| Total ... ... | 3,017,997 | 2,955,769 | 593,958 | 656,186 |

The reasons for the fluctuations noticed are reported by Divisional Officers to result from the fact that either home consumption permits were, or were not, efficiently distributed by mauzadárs and others to all persons having a just claim to them. The agency through which these permits are issued is very unreliable, and not directly answerable to the Forest Department for the performance of its duties. It is also very difficult to check the work of the mauzadárs, many of whom can be visited only once or twice a year, and then may be absent from their headquarters. The number of free permits issued by these officials must always be a matter of uncertainty, and there is nothing surprising in the fluctuations noticed above. The value of these grants, which represent 60 per cent. of the total outturn of the forests, is obtained by multiplying the number of free permits issued by certain fixed factors ; but the calculation is a mere paper estimate, and is based on the presumption that the exact quantity of produce is removed that is allowed by the permits.

The value of the grants is estimated to have been Rs. 85,067, as compared with Rs. 84,909 in the previous year.

*General.*

Outturn of shared forests.

73. The outturn from shared forests is compared in the following statement. The yield from the zemindari forests in the Gáro Hills was 18,620 cubic feet less than last year, which the Divisional officer explains was owing to the short rainfall and consequent shallowness of the streams, which put a stop to floating operations at an early date :

| | 1890-91. | | | 1891-92. | | |
|---|---|---|---|---|---|---|
| | Number of trees. | Pieces of dead wood. | Cubic feet. | Number of trees. | Pieces of dead wood. | Cubic feet |
| From zemindari forests in the Gáro Hills. | 926 | ... | 37,040 | 460 | 2 | 18,420 |
| From the forests in the Khási Hills. | 396 | 2,102 | 36,860 | 580 | 2,040 | 30,362 |

74. The following table exhibits the outturn of timber and fuel removed from the Government forests of Cachar and Sylhet, inclusive of free grants and the outturn of private forests exported and of foreign forests imported by purchasers :

Outturn of forests of Surma Valley.

| Classes of forests. | 1890-91. | | 1891-92 | | Increase. | | Decrease. | |
|---|---|---|---|---|---|---|---|---|
| | Timber | Fuel | Timber. | Fuel. | Timber. | Fuel. | Timber. | Fuel. |
| CACHAR. | | | | | | | | |
| From Government forests | 219,890 | 68,183 | 322,336 | 105,186 | 102,446 | 37,003 | ..... | ..... |
| " foreign " | 57,948 | 102 | 61,795 | 216 | 3,847 | 144 | ..... | ..... |
| " private " | 348,324 | 16,763 | 221,979 | 19,101 | ..... | 2,348 | 126,345 | ..... |
| SYLHET. | | | | | | | | |
| From Government forests | 85,733 | 764,248 | 96,720 | 939,408 | 10,987 | 175,160 | ..... | ..... |
| " foreign " | 296,478 | 838 | 302,645 | 190 | 6,167 | ..... | ..... | 648 |
| " private " | 25,957 | 15,854 | 48,388 | 12,128 | 22,431 | ..... | ..... | 3,726 |

The above figures show an increased timber outturn from the Government forests of the Surma Valley of 113,433 cubic feet, but the outturn of 1890-91 was abnormally low, owing to disturbances on the frontier ; and the figures of the present year approximate those of 1889-90. The large increase in the outturn of fuel from the Sylhet forests is found entirely under the head of free grants, and is not fully explained by the Divisional Officer, but is supposed to be due to the fluctuations alluded to in *supra*, paragraph 72.

The above produce was worked out in the following proportions from the Cachar and Sylhet districts :

| | Government forests. | Foreign forests. | Private forests. |
|---|---|---|---|
| Cachar ... ... | 59 | 8 | 33 |
| Sylhet ... ... | 74 | 22 | 4 |

75. As this industry is rapidly extending in Assam and obtains a good deal of its raw material from Government forests, it may be useful to record a statement as follows, showing what the outturn and value of the trade has been during the past four years :

Outturn of tea boxes from saw-mills.

| Year. | Number of boxes. Large. | Number of boxes. Medium. | Number of boxes. Small | Total number of boxes. | Cubic feet. | Royalty paid. |
|---|---|---|---|---|---|---|
| | | | | | | Rs. |
| 1888-89 ... | 112,329 | ..... | 6,328 | 118,657 | 86,778 | 7,218 |
| 1889-90 ... | 95,293 | 1,021 | 9,670 | 105,984 | 75,898 | 6,305 |
| 1890-91 .. | 139,272 | 11,422 | 13,457 | 164,151 | 116,118 | 9,659 |
| 1891-92 ... | 347,499 | 24,768 | 21,890 | 394,127 | 282,986 | 17,792 |

It will be seen from the above that the demand on our forests in this connection has more than doubled during the above period. The produce chiefly required in the mills consists of inferior timber, such as Simul (*Bombax malabaricum*), Kadam (*Anthocephalus cadamba*), and Kokan (*Duabanga Sonneratioides*), all of which are quick-growing trees ; and as the industry has every chance of developing and becoming permanent in this province, it may soon be necessary to reserve certain well-situated areas for the special purpose of supplying this particular demand, which at present is concentrated almost wholly on unclassed forests.

76. The area of land allotted for cultivation under the Waste Land Rules, in regard to which timber valuations were made by the Forest Department, is exhibited below :

Timber valuation under Waste Land Rules.

| Name of division. | Area of forest land allotted for cultivation in acres | | | | Amount of forest revenue realised and due. | | | | Average amount per acre. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1890-91. | 1891-92. | Increase. | Decrease. | 1890-91. | 1891-92. | Increase. | Decrease | 1890-91. | 1891-92. | Increase. | Decrease. |
| | | | | | Rs | Rs | Rs | | Rs. a. p. | Rs. a. p. | Rs a p. | Rs. a. p. |
| Cachar .. .. | 2,587 | 5,762 | 3,225 | .... | 5,379 | 24,294 | 18,915 | .... | 2 1 11 | 4 3 6 | 2 1 7 | .. . |
| Sylhet .. .. | .... | 2,578 | 2,578 | .... | .... | 9,576 | 9,576 | .... | .... | 3 11 5 | 3 11 5 | .... |
| Darrang .. .. | 323 | 943 | 610 | .... | 112 | 1,785 | 1,673 | .... | 0 5 4 | 1 14 4 | 1 9 0 | .... |
| Nowgong .. . | .... | 56 | 56 | .... | .... | 6 | 6 | ... | .... | 0 1 8 | 0 1 8 | .... |
| Sibsagar .. . | 1,442 | 2,204 | 762 | .... | 4,590 | 4,862 | 272 | ... | 3 0 0 | 2 1 5 | .... | 0 14 7 |
| Lakhimpur . .. | 160 | 551 | 395 | .... | 1,018 | 7,404 | 6,386 | .... | 6 3 1 | 13 3 2 | 7 1 1 | .... |
| Total .. . | 4,478 | 12,104 | 7,626 | .... | 10,839 | 47,867 | 36,828 | . | 2 6 9 | 3 15 0 | 1 8 3 | .... |

As compared with the previous year, there was an increase in land allotted under this head of 7,626 acres, and an increase in the timber valuation of Re. 1-8-3 per acre, the average valuation being Rs. 3-15 as compared with Rs. 2-6-9 per acre last year.

77. These timber valuations are not infrequently the cause of complaint, it sometimes being stated that they are prohibitive, and a stumbling block in the way of extending tea cultivation. But if it be considered that the expenditure of opening a tea garden is not less than Rs. 2'10 per acre, it can scarcely be correct to state that the price of the timber on the land, which averages only Rs. 3-15 per acre, is of much importance in the undertaking; and it seems very doubtful whether such an item would, under ordinary circumstances, be objected to. But many planters wish to become the owners of large areas of land now, when land can be obtained cheaply, and probably with a view of reselling it in the future when land will be much more expensive and difficult to obtain. And, doubtless, when a bill is made out for the timber on a large area, it may amount to several thousands of rupees, and present a formidable appearance to the planter, especially if he be a beginner with a small capital, who cannot well afford to lay out a considerable sum of money in what probably for some years must be a dead investment. The applicant then declaims against the bill for its exorbitant rates, and complains to the district officer, who seems generally to be inclined to side with him, against the forest valuation. The latter, however, in this province is really very moderate in its incidence and a trifle to what the coffee planter pays in Mysore, Coorg, or Madras for forest-covered land of the same description.

78. The other notable items of local outturn which receive attention in the yearly report are bamboos, grazing and grass, rubber, agar, cane, and the proceeds of what are locally known in the Gáro Hills as *gurkati* passes.

Bamboos, see Form 55.

79. The yield in this produce is divided under two heads, namely, trade and free grants. The figures for the two last years are as follows:

| | Number. | | Value. | |
|---|---|---|---|---|
| | For trade. | Free grants. | For trade. | Free grants. |
| | | | Rs. | Rs. |
| 1891-92 ... ... | 2,115,789 | 2,033,008 | 6,002 | 7,799 |
| 1890-91 ... ... | 2,211,698 | 1,822,514 | 5,551 | 6,858 |
| Plus or minus difference .. | —95,909 | +210,494 | +451 | +941 |

There was a falling off in outturn sold to purchasers of nearly one lakh of bamboos, but the price realised was Rs. 451 more than in the previous year.

The value of the bamboos granted free of payment came to Rs. 7,799.

Grazing.

80. Owing to the sanctioned collection of a duty of 8 annas a head on buffaloes belonging to *bonâ-fide* graziers, or persons making a trade out of their dairy produce, the revenue under this head increased to Rs. 5,630, or Rs. 2,818 in excess of last year's receipts. The duty was realised chiefly in the districts of Lakhimpur, Nowgong, and Goálpára, and from grazing exercised principally in unclassed forest areas.

Grass.

81. The following statement shows the outturn and value of thatching-grass during the past two years:

| Year. | Dhubri and Fakirganj revenue stations | | | | Cachar. | | | | Sylhet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of cubic feet | | Value. | | Number of cubic feet. | | Value. | | Number of cubic feet. | | Value. | | Mahal. | |
| | For trade. | Free grant. | For trade. | Free grant. | For trade. | Free grant. | For trade | Free grant. | For trade. | Free grant. | For trade | Free grant. | Quantity | Value |
| | | | Rs | | | | Rs | Rs. | | | Rs | Rs. | | Rs |
| 1891 92 .. | 1,798,482 | . | 4,484 | | 53,700 | 54,100 | 132 | 135 | 451,417 | 537,750 | 1,190 | 1,344 | .. | 1,528 |
| 1890-91 .. | 2,497,643 | . | 6,239 | | 31,200 | 12,000 | 77 | 30 | 581,150 | 560,600 | 1,195 | 1,401 | | 1,626 |
| Plus or minus difference | -702,161 | . | —1,755 | .. | +21,500 | +42,100 | +55 | +105 | —129,733 | —22,850 | —325 | —57 | | —87 |

There was a very considerable decrease in the exports of thatching-grass past the check station of Fakirganj at Dhubri, resulting in a falling off of Rs. 1,755, which is explained by the Divisional Officer as being due to the early closing of boating operations in the interior and on numerous feeders of the Brahmaputra. It may, however, be noted that the revenue from this head in 1890-91 was abnormally large, being Rs. 3,729 in excess of former receipts.

82. The estimated outturn of rubber is obtained by deducting the imports from exports, the figures of which are supplied by the Director of Land Records. Following precedent, a statement is given below showing the calculated outturn for the past ten years :

Caoutchouc.

| Year. | 1882-83. | 1883-84. | 1884-85 | 1885-86. | 1886-87. | 1887-88. | 1888-89. | 1889-90. | 1890-91. | 1891-92. |
|---|---|---|---|---|---|---|---|---|---|---|
| Quantity in maunds ... | 4,743 | 8,150 | 7,290 | 5,675 | 2,277 | 6,563 | 6,675 | 3,419 | 3,076 | 4,227 |

During the year under review the outturn would appear to have been rather larger than in the two previous years, but was below the average for the past ten years, which comes to 5,209 maunds.

83. The right to collect the product has been farmed out to contractors, who have hitherto paid considerable sums of money for the privilege. Lately, however, many complaints have been made that the Assam forests are not nearly so productive in rubber as heretofore, a fact, doubtless, owing partly to the reckless method of working employed by the contractors and their agents, and partly to the unprotected and inaccessible situations of the rubber tracts, which have enabled the adjoining hill tribes to illicitly tap the trees and import the rubber into Assam free of duty as foreign produce. Almost while writing the above, a report has been received from the Divisional Officer of Darrang, Mr. Copeland, describing how he has just found the Government forests on the frontier full of foreign rubber tappers, who have come down in a systematic way, in separate gangs, each under a *Sardar*, and heavily tapped nearly all the trees growing within a few miles of the border, the work being done at night. The leases having now expired, the question of how best to collect this head of revenue in future has formed the subject of a separate reference, which it is believed has been forwarded for the consideration of the Government of India, and need not be further alluded to in this report.

84. The following statement shows the receipts that have been realised from this valuable product during the past ten years :

| Name of division. | 1882-83. | 1883-84 | 1884-85. | 1885-86. | 1886-87. | 1887-88. | 1888-89. | 1889-90. | 1890-91. | 1891-92. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Cachar .. .. .. .. | 3,000 | 2,000 | 1,700 | 1,000 | 500 | 275 | .... | .... | .... | .... |
| Sylhet .. .. .. .. | .... | .... | .... | .... | 250 | 500 | .... | .... | .... | .... |
| Goálpára .. .. .. .. | 200 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Kámrúp .. .. . .. | 1,610 | 905 | .... | .... | .... | 300 | 100 | .... | .... | .... |
| Darrang .. .. .. .. | 21,100 | 22,100 | 22,100 | 22,100 | 22,100 | 21,005 | 21,005 | 21,005 | 21,005 | 21,005 |
| Nowgong .. .. .. .. | 182 | 295 | 280 | 128 | 88 | 69 | .... | .... | .... | .... |
| Lakhimpur . .. .. | 6,100 | 10,000 | 5,080 | 7,600 | 11,550 | 10,600 | 10,600 | 10,600 | .... | 4,000 |
| Nága Hills .. .. .. | 1,200 | 800 | .... | .... | .... | .... | 517 | 517 | 517 | 270 |
| Khási „ .. .. .. | 600 | 600 | 350 | 350 | 400 | 515 | 850 | 855 | 700 | 310 |
| Total .. .. .. .. | 33,992 | 36,700 | 29,510 | 31,178 | 34,988 | 33,264 | 33,082 | 32,977 | 22,222 | 25,585 |

85. The produce from this tree has hitherto been found only in the districts of Sylhet and Cachar, and in the former the local capabilities were so overworked that it has been considered necessary to give the forests a rest, so that no revenue is at present derived from them. In Cachar, also, the *mahál* was not sold for the year under report. Quite recently, however, the Agar tree has been found in fair quantity, according to reports, in the submontane forests of Sibságar and the Nága Hills ; and enquiries for permission to work out this produce having been received from several persons, it is anticipated that a larger revenue than hitherto may be realised from this item in future.

Agar (*Aquilaria agallocha*).

86. The trade in cane appears still to be very undeveloped, the total trade receipts under this head amounting to only Rs. 5,586 as compared with Rs. 5,172 realised last year, as exhibited in the following statement :

Cane.

| Year. | Trade permits. | *Mahál* contracts. | Total trade. | Free grants. | Grand total. |
|---|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1890-91 ... ... | 2,324 | 2,848 | 5,172 | 1,869 | 7,041 |
| 1891-92 ... ... | 2,538 | 3,048 | 5,586 | 2,156 | 7,742 |
| Difference ... ... | +214 | +200 | +414 | +287 | +701 |

87. The receipts derived in the Gáro Hills from the system of *gurkati* permits came to Rs. 12,355, or Rs. 1,470 less than last year, see Form 55. The falling off is explained to be owing to the early cessation of the rains, and to the streams becoming at an early date too shallow to admit of the ascent of boats for the removal of produce. But it will be seen from the following comparative statement of passes issued, the values of which have remained constant, that the revenue of the year under report was only exceeded by that of 1890-91 :

*Gurkati* passes.

| | 1883-83. | 1883-84 | 1884-85 | 1885-86 | 1886-87. | 1887-88 | 1888 89 | 1889-90 | 1890-91 | 1891-92. |
|---|---|---|---|---|---|---|---|---|---|---|
| Gáro permits ... | 2,358 | 2,300 | 1,388 | 2,282 | 2,764 | 2,899 | 2,583 | 2,352 | 2,656 | 2,285 |
| Foreign " ... | 1,223 | 2,210 | 2,073 | 3,870 | 4,147 | 5,893 | 6,575 | 7,572 | 9,778 | 8,839 |
| Total ... ... | 3,581 | 4,510 | 3,461 | 6,152 | 6,911 | 8,792 | 9,158 | 9,924 | 12 434 | 11,124 |
| In Government forests | 3,043 | 4,029 | 2,886 | 5,284 | 5,678 | 6,120 | 6,460 | 6,351 | 7,975 | 7,082 |
| " zemindari " | 538 | 481 | 575 | 868 | 1,233 | 2,672 | 2,698 | 3,573 | 4,459 | 4,042 |
| Total ... ... | 3,581 | 4,510 | 3,461 | 6,152 | 6,911 | 8,792 | 9,158 | 9,924 | 12,434 | 11,124 |

88. The figures usually quoted in regard to imports and exports will be found in Appendix VII. Under the head of imports, the figures for the two past years are very similar, and show no important variation. There was a slight falling off under heads Timber and Bamboos, needing no special explanation, and also a small falling off of 71 maunds under head Rubber, which may have resulted from the Lakhimpur *mahâls* being leased, which would tend to restrict somewhat the smuggling of Government Rubber across the border as foreign produce.

Imports and exports.

Under exports, there was apparently a considerable falling off in thatching-grass, alluded to in paragraph 81, and an increase of 1,059 maunds of Rubber, owing probably to the Government forests of Lakhimpur having been leased and worked during the year by a maháldár as above mentioned.

## CHAPTER V.

### FINANCIAL RESULTS.

89. The financial results of the year compare as follows with those of the previous year :

| Year. | Receipts. Rs. | Charges. Rs. | Surplus. Rs. |
|---|---|---|---|
| 1890-91 ... ... | 3,26,793 | 2,83,853 | 42,940 |
| 1891-92 ... ... | 3,36,129 | 2,67,525 | 68,604 |
| Difference ... ... | + 9,336 | —16,328 | + 25,664 |

The surplus of the year was Rs. 25,664 more than in the previous year, and represents 20 per cent. of the gross revenue, as compared with 13 per cent. in 1890-91.

Surplus

Revenue details.

90. The revenue was realised from the following sources :

| | 1890-91. Rs | 1891-92. Rs. |
|---|---|---|
| Timber from Government forests ... | 2,08,343 | 2,09,644 |
| " " other forests ... ... | 12,207 | 13,870 |
| Fuel ... ... ... ... | 2,675 | 3,224 |
| Bamboos ... ... ... | 5,533 | 6,019 |
| Grazing ... ... ... | 2,833 | 5,573 |
| Minor forest produce ... ... | 41,845 | 42,265 |
| *Gurkati* passes ... ... ... | 13,825 | 12,559 |
| Miscellaneous ... ... ... | 39,532 | 42,975 |
| Total ... ... ... | 3,26,793 | 3,36,129 |

A slight increase took place under every head, except that of "*Gurkati* passes," under which there was a decrease of Rs. 1,266, resulting from the early closing of floating and boating operations as explained in paragraph 87.

The relative increase of revenue under timber removed from Government forests would have been much larger than here exhibited, owing to the larger timber outturn of the year, had not the revenue for 1890-91 included a sum of Rs. 32,235 recovered on

account of former outstandings, in excess of similar recoveries made during the year under report. The actual increase under this head was, therefore, Rs. 33,536, in addition to which it may be stated that the outstanding timber revenue balance at the close of the year was Rs. 3,634 more than at the commencement of the year.

Expenditure details.

91. The following statement shows the expenditure of the year, compared with that of last year. The fluctuations under different heads resulted in a net decrease of Rs. 16,328 :

| Budget head. | 1890-91. | 1891-92. | Increase. | Decrease. |
|---|---|---|---|---|
| *A.—Conservancy and Works.* | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| I.—Timber and other produce removed from the forest by Government agency ... | 8,052 8 10 | 8,165 5 8 | 112 12 10 | ..... |
| II.—Timber and other produce removed from the forests by consumers and purchasers ... .. ... | 13,341 5 10 | 15,390 13 11 | 2,049 8 1 | ..... |
| III.—Drift and waif wood and confiscated forest produce ... ... | 215 1 2 | 233 13 3 | 18 12 1 | ..... |
| IV.—Revenue from forests not managed by Government ... ... ... | 583 3 3 | 852 12 9 | 269 9 6 | ..... |
| V.—Rent of leased forests and payments to shareholders in forests managed by Government ... ... ... | ..... | ..... | ..... | ..... |
| VI.—Live and dead stock ... ... | 22,146 4 1 | 16,206 11 8 | ..... | 5,939 8 5 |
| VII.—Communications and buildings ... | 11,717 8 2 | 14,181 7 10 | 2,463 15 8 | ..... |
| VIII.—Demarcation, improvement, and extension of forests ... ... | 74,801 5 8 | 72,425 1 11 | ..... | 2,376 3 9 |
| IX.—Miscellaneous ... ... ... | 14,030 5 0 | 4,240 9 3 | ..... | 9,789 11 9 |
| Total A—Conservancy and Works ... | 1,44,887 10 0 | 1,31,696 12 3 | 4,914 10 2 | 18,105 7 11 |
| *B—Establishments.* | | | | |
| I.—Salaries ... ... ... | 1,14,273 9 1 | 1,10,263 7 6 | ..... | 4,010 1 7 |
| II.—Travelling allowances ... ... | 19,190 14 1 | 20,172 11 5 | 981 13 4 | ..... |
| III.—Contingencies ... ... ... | 5,500 8 9 | 5,391 11 2 | ..... | 108 13 7 |
| Total B—Establishments ... ... | 1,38,964 15 11 | 1,35,827 14 1 | 981 13 4 | 4,118 15 2 |
| Grand total of Expenditure ... ... | 2,83,852 9 11 | 2,67,524 10 4 | 5,896 7 6 | 22,224 7 1 |

The chief increases are found under—

| | Rs. |
|---|---|
| A II ... ... ... ... ... | 2,049 |
| A VII ... ... ... ... ... | 2,464 |
| B II ... ... ... ... ... | 982 |

The increase under A II is due to a larger amount of commission being paid during the year to vendors of forest passes receiving 10 per cent. on their sales, and to a slight increase in temporary establishment appointed on protective work.

Under A VII the increase was due to more than ordinary extensive repairs having been undertaken on the Dambu and Dhekrigaon roads in the Gáro Hills and Darrang districts.

Under B II the increase resulted from a larger percentage of travelling allowance being paid to the three Extra Assistant Conservators, consequent on their promotion during the year.

The important items of decrease are found under—

| | Rs. |
|---|---|
| A VI ... ... ... ... ... ... | 5,939 |
| A VIII... ... ... ... ... ... | 2,376 |
| A IX ... ... ... ... ... ... | 9,790 |
| B I ... ... ... ... ... ... | 4,010 |

Under A VI the decrease was owing to fewer elephants having been purchased for the department than in the previous year.

Under A VIII the decrease resulted from fluctuations under all the sub-heads of this account as follows :

| Plus. | Minus. |
|---|---|
| Rs. | Rs. |
| (a) 217 | (c) 855 |
| (b) 170 | (d) 5,870 |
| (e) 3,880 | |
| (f) 82 | |
| 4,349 | 6,725 |
| Net minus difference ... ... | 2,376 |

The increase under sub-head (e) was owing to heavy payments on account of fire protection work in the months of April and May 1891, including arrears, which should have been debited to the previous year 1890-91.

The decrease under (c) was due to a smaller expenditure under Working Plans ; and the large decrease under (d) to no new clearing having been made for planting at Charduar, as the season of 1892 would be fully taken up in planting the land already cleared, and replanting the areas that had failed, as explained in paragraph 54 of this report.

Under IX the decrease was nominal, the large expenditure of the previous year having been due to a refund of revenue amounting to Rs. 10,000, which was debited to this head.

Under B I the decrease was entirely owing to a less-highly-paid Conservator being in charge of the circle than in the previous year.

92. The following statement shows the receipts and expenditure of the different divisions, with financial results, the figures of the previous year being given for comparison :

Divisional details.

| Name of division. | Receipts. | | | | | | Expenditure. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1890-91. | | | 1891-92. | | | 1890-91 | | | 1891-92. | | |
| | Rs. | a. | p. | Rs. | a. | p. | Rs | a. | p. | Rs. | a | p |
| Direction ... ... | 242 | 0 | 0 | 324 | 15 | 8 | 29,768 | 6 | 1 | 31,449 | 13 | 11 |
| Working Plans ... | 6 | 10 | 0 | 464 | 0 | 0 | 21,996 | 10 | 1 | 15,660 | 12 | 1 |
| Cachar ... ... | 37,950 | 6 | 0 | 44,226 | 11 | 9 | 15,950 | 11 | 7 | 17,051 | 0 | 9 |
| Sylhet ... ... | 40,065 | 6 | 9 | 49,201 | 5 | 11 | 10,360 | 1 | 0 | 11,967 | 7 | 2 |
| Goálpára ... ... | 73,004 | 1 | 0 | 39,936 | 6 | 1 | 54,409 | 10 | 7 | 59,804 | 1 | 1 |
| Kámrúp ... ... | 54,066 | 4 | 10 | 58,810 | 11 | 5 | 36,350 | 0 | 0 | 33,356 | 15 | 6 |
| Darrang ... ... | 29,711 | 5 | 8 | 35,001 | 10 | 9 | 21,185 | 3 | 0 | 22,689 | 7 | 4 |
| Nowgong ... ... | 10,611 | 1 | 8 | 15,325 | 6 | 4 | 8,054 | 1 | 2 | 9,282 | 4 | 6 |
| Sibságar and Nága Hills. | 14,017 | 6 | 5 | 12,900 | 12 | 9 | 16,119 | 3 | 4 | 19,233 | 9 | 10 |
| Lakhimpur ... | 23,321 | 14 | 4 | 41,920 | 8 | 2 | 40,203 | 8 | 10 | 17,270 | 14 | 3 |
| Khási and Jaintia Hills... | 1,957 | 15 | 6 | 1,653 | 4 | 6 | 2,983 | 8 | 3 | 3,504 | 0 | 0 |
| Gáro Hills... ... | 41,838 | 10 | 7 | 36,362 | 13 | 3 | 26,471 | 10 | 0 | 26,254 | 0 | 11 |
| Total ... ... | 3,26,793 | 2 | 9 | 3,36,128 | 10 | 7 | 2,83,852 | 9 | 11 | 2,67,524 | 10 | 4 |

| Name of division. | Surplus. | | Deficit. | |
|---|---|---|---|---|
| | 1890-91. | 1891-92. | 1890-91. | 1891-92. |
| | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| Direction ... ... | ..... | ..... | 29,526 6 1 | 31,124 14 3 |
| Working Plans ... | ..... | ..... | 21,990 0 1 | 15,196 12 1 |
| Cachar ... ... | 21,999 10 5 | 27,175 8 0 | ..... | ..... |
| Sylhet ... ... | 29,705 5 9 | 37,233 14 9 | ..... | ..... |
| Goálpára ... ... | 18,594 6 5 | ..... | ..... | 19,867 11 0 |
| Kámrúp ... ... | 17,716 4 10 | 25,453 11 11 | ..... | ..... |
| Darrang ... ... | 8,526 2 8 | 12,312 3 5 | ..... | ..... |
| Nowgong ... ... | 2,557 0 6 | 6,043 1 10 | ..... | ..... |
| Sibságar and Nága Hills. | ..... | ..... | 2,101 12 11 | 6,332 13 1 |
| Lakhimpur ... ... | ..... | 24,649 9 11 | 16,881 10 6 | ..... |
| Khási and Jaintia Hills... | ..... | ..... | 1,025 8 9 | 1,850 11 6 |
| Gáro Hills... ... | 15,367 0 7 | 10,108 12 4 | ..... | ..... |
| Total ... ... | 1,14,465 15 2 | 1,42,976 14 2 | 71,525 6 4 | 74,372 13 11 |

There was a satisfactory increase of surplus in the Cachar, Sylhet, Kámrúp, Darrang, and Nowgong Divisions, owing principally to the recovery of the timber trade, while the large surplus in Lakhimpur, as compared with the deficit in the previous year, resulted partly from a large receipt in connection with land sales and also to a very satisfactory and *bonâ-fide* increase in the timber trade. The comparative financial results of this division were also considerably affected by a sum of Rs. 10,000 having to be refunded in 1890-91 and debited to the expenditure of that year, as also a sum of Rs. 4,800 on account of the purchase of three elephants for departmental work.

In Goálpára the surplus of previous years was turned into a large deficit during the year under report, partly owing to the slackness of trade caused by the early cessation of the rains and to the closing of certain forests to the public ; and partly due to the fact that in the previous year a sum of Rs. 31,220 was recovered on account of former outstanding revenue in excess of similar recoveries during the year under review. There is little doubt also that the large revenues realised in this division in 1888-89, 1889-90, and 1890-91 were unduly swollen by working the Sâl forests beyond their fair capability, and that the average outturn of these forests, when controlled by the working plans, which it is hoped will before long be available, will be considerably below the volume of timber exploited during the first two of the above years.

This division had also the misfortune to be subjected to five different changes in the controlling officer during the year, which must have told against its efficient management. With Mr. Campbell, the present officer in charge, there is every hope of improvement in its financial status during the ensuing year.

In the Gáro Hills there was a falling off in surplus of Rs. 5,258, owing partly to a decrease of *gurkati* revenue, as already explained, and also to the fact that the realisation of outstanding revenue fell short of similar recoveries in the previous year by Rs. 3,135.

Under Direction the increased deficit of Rs. 1,598 was owing to the price of two elephants purchased for timber work being incorrectly debited against this head.

The increase of Rs. 4,231 in the deficit of the Sibságar-Nága Hills Division was principally owing to the non-recovery during the year of certain sums due on account of timber bills on land valuation, which have since been realised; while the increase in deficit in the Khási and Jaintia Hills of Rs. 825 was the result of a falling off of receipts under R II*e*, owing to the Rubber mahâls selling for a less sum than in 1890-91, and to a sum of Rs. 352 being debited to expenditure A on account of a refund of revenue credited to the previous year.

93. The value of live and dead stock, including timber, at the end of the year, was Rs. 2,01,376, as compared with Rs. 1,71,372 at the commencement of the year, see Form No. 57.

94. The amount of revenue outstanding at the close of the year was Rs. 47,892, as compared with Rs. 45,062 at the commencement of the year,—see form No. 60.

# CHAPTER VI.

## GENERAL REMARKS.

Services of officers.

95. The Officiating Conservator is glad to acknowledge the assistance given him by all Divisional Officers since he assumed charge of this Circle. During the past camping season, he has been through all the divisions, except Cachar, and made himself acquainted with the most important forest requirements of the province.

Services of subordinates.

96. Forest rangers Kripa Nath De and Khogendra Nath Mukherjee, also Foresters Rasadhar Borah and Hari Kali Mazumdar, are specially mentioned by their Divisional Officers as having worked well during the year.

Office staff.

97. The office establishments are also well reported on, with few exceptions, and the Officiating Conservator also acknowledges the services of his own office staff, especially of the Superintendent, Babu Kartik Chandra Chatterji, and Head Accountant, Babu Braja Nath Mukherji.

J. McKEE,

*Offg. Conservator of Forests, Assam.*

FORM No. 49.

FOREST DEPARTMENT, ASSAM.—AREA OF RESERVED FORESTS, PROTECTED FORESTS, AND UNCLASSED STATE FORESTS AND WASTE LANDS, 1891-92.

| Division. | Range. | Civil district or territory. | Name of forest | Area on 1st April 1891 | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1892. | | No. and date of notification addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| | | | *(a) Reserved Forests.* | | | | | | | |
| Cachar ... | Sonai ... ... | Cachar district ... | Upper Jiri ... ... | 15,360 | 24 | ..... | ..... | 15,360 | 24 | |
| " ... | " ... ... | " " ... | Lower " ... ... | 9,002 | 14 | ..... | ..... | 9,002 | 14 | |
| " ... | " ... ... | " " ... | Barak ... ... | 46,720 | 73 | 1,110 | ..... | 47,830 | 75 | No. 633R., dated the 24th February 1892. |
| " ... | " ... ... | " " ... | Sonai ... ... | 11,520 | 18 | ..... | ..... | 11,520 | 18 | |
| " ... | Ditto and Matijuri ... | " " ... | Inner Line ... ... | 325,760 | 509 | ..... | ..... | 325,760 | 509 | |
| " ... | Matijuri ... ... | " " ... | Katakhal ... ... | 51,200 | 80 | ..... | ..... | 51,200 | 80 | |
| " ... | " ... ... | " " ... | Dhaleswari ... ... | 20,451 | 32 | ..... | ..... | 20,451 | 32 | |
| | | | Total ... ... ... | 480,013 | 750 | 1,110 | ..... | 481,123 | 752 | |
| Sylhet ... | Patharkandi... ... | Sylhet district ... | Longai and Singla ... ... | 108,800 | 170 | ..... | ..... | 108,800 | 170 | |
| | | | Total ... ... ... | 108,800 | 170 | ..... | ..... | 108,800 | 170 | |
| Goálpára ... | Eastern ... ... | Goálpára district ... | Bijni Duar ... ... | 99,980 | 156 | ..... | ..... | 99,980 | 156 | |
| " ... | " ... ... | " " ... | Sidli ... ... ... | 43,757 | 68 | ..... | ..... | 43,757 | 68 | |
| " ... | " ... ... | " " ... | Bengtol and Darogaon ... | 7,470 | 12 | ..... | ..... | 7,470 | 12 | |
| " ... | " ... ... | " " ... | Bhumeswar Hills ... ... | 4,033 | 6 | ..... | ..... | 4,033 | 6 | |
| " ... | " ... ... | " " ... | Bhur ... ... ... | 3,855 | 6 | ..... | ..... | 3,855 | 6 | |
| " ... | " ... ... | " " ... | Chirang Duar No. I ... ... | 69,203 | 108 | ..... | ..... | 69,203 | 108 | |
| " ... | Western ... ... | " " ... | " " No. II ... ... | 90,643 | 142 | ..... | ..... | 90,643 | 142 | |
| " ... | " ... ... | " " ... | Ripu Duar ... ... | 41,632 | 65 | ..... | ..... | 41,632 | 65 | |
| " ... | " ... ... | " " ... | Jengasi Charaidaka ... ... | 1,730 | 3 | ..... | ..... | 1,730 | 3 | |
| " ... | " ... ... | " " ... | Atiabari ... ... ... | 9,180 | 14 | ..... | ..... | 9,180 | 14 | |
| " ... | " ... ... | " " ... | Panbari and Pechadaveri ... | 3,290 | 5 | ..... | ..... | 3,290 | 5 | |
| " ... | " ... ... | " " ... | Sankos ... ... ... | 28,800 | 45 | ..... | ..... | 28,800 | 45 | |
| " ... | " ... ... | " " ... | Muktaigaon ... ... | 3,200 | 5 | ..... | ..... | 3,200 | 5 | |
| " ... | Guma ... ... | " " ... | Guma ... ... ... | 15,776 | 25 | ..... | ..... | 15,776 | 25 | |
| | | | Total ... ... ... | 422,549 | 660 | ..... | ..... | 422,549 | 660 | |

FORM No. 49—*continued.*

| Division. | Range. | Civil district or territory. | Name of forest. | Area on 1st April 1891. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1892. | | No. and date of notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| Kámrúp ... | Kulsi ... ... | Kámrúp district ... | Borduar ... ... ... | 15,896 | 25 | ..... | ..... | 15,896 | 25 | |
| ,, ... | ,, ... ... | ,, ,, ... | Pantan ... ... ... | 21,910 | 34 | ..... | ..... | 21,910 | 34 | |
| ,, ... | ,, ... ... | ,, ,, ... | Kulsi plantation ... ... | 3,680 | 6 | ..... | ..... | 3,680 | 6 | |
| ,, ... | ,, ... ... | ,, ,, ... | Milmilha ... ... ... | 3,610 | 6 | ..... | ..... | 3,610 | 6 | |
| ,, ... | ,, ... ... | ,, ,, ... | Mayang ... ... ... | 4,800 | 7 | ..... | ..... | 4,800 | 7 | |
| ,, ... | ,, ... ... | ,, ,, ... | Chhaygaon ... ... | 2,705 | 4 | ..... | ..... | 2,705 | 4 | |
| ,, ... | Jirang ... ... | ,, ,, ... | Mataikhar ... ... | 2,240 | 4 | ..... | ..... | 2,240 | 4 | |
| ,, ... | Rani ... ... | ,, ,, ... | Jara ... ... ... | 1,037 | 2 | ..... | ..... | 1,037 | 2 | |
| ,, ... | ,, ... ... | ,, ,, ... | Rani ... ... ... | 11,035 | 17 | ..... | ..... | 11,035 | 17 | |
| ,, ... | ,, ... ... | ,, ,, ... | Kawasing ... ... | 3,570 | 6 | ..... | ..... | 3,570 | 6 | |
| ,, ... | Singra ... ... | ,, ,, ... | Simla Hills ... ... | 317 | ..... | ..... | ..... | 317 | ..... | |
| ,, ... | ,, ... ... | ,, ,, ... | Dumpara ... ... | 497 | 1 | ..... | ..... | 497 | 1 | |
| ,, ... | ,, ... ... | ,, ,, ... | Khaksi, Sikrabura Hill ... | 2,530 | 4 | ..... | ..... | 2,530 | 4 | |
| ,, ... | ,, ... ... | ,, ,, ... | Ghoraputa ... ... | 120 | ..... | ..... | ..... | 120 | ..... | |
| ,, ... | ,, ... ... | ,, ,, ... | Khatkhati Hills ... ... | 644 | 1 | ..... | ..... | 644 | 1 | |
| ,, ... | ,, ... ... | ,, ,, ... | Taraibari ... ... ... | 806 | 1 | ..... | ..... | 806 | 1 | |
| ,, ... | ,, ... ... | ,, ,, ... | Garubaldha ... ... | 240 | ..... | ..... | ..... | 240 | ..... | |
| ,, ... | ,, ... ... | ,, ,, ... | Khurkhuri ... ... | 149 | ..... | ..... | ..... | 149 | ..... | |
| ,, ... | ,, ... ... | ,, ,, ... | Sorsuria Hills ... ... | 970 | 2 | ..... | ..... | 970 | 2 | |
| ,, ... | ,, ... ... | ,, ,, ... | Gizang ... ... | 930 | 1 | ..... | ..... | 930 | 1 | |
| ,, ... | ,, ... ... | ,, ,, ... | Jaipur ... ... | 774 | 1 | ..... | ..... | 774 | 1 | |
| ,, ... | ,, ... ... | ,, ,, ... | Baradobha ... ... | 1,190 | 2 | ..... | ..... | 1,190 | 2 | |
| ,, ... | ,, ... ... | ,, ,, ... | Nampathar ... ... | 640 | 1 | ..... | ..... | 640 | 1 | |
| ,, ... | ,, ... ... | ,, ,, ... | Barjuli ... ... | 1,120 | 2 | ..... | ..... | 1,120 | 2 | |
| ,, ... | Northern ... ... | ,, ,, ... | Hajo ... ... | 243 | ..... | ..... | ..... | 243 | ..... | |
| | | | Total ... ... ... | 81,653 | 128 | ..... | ..... | 81,653 | 128 | |
| Darrang ... | Western ... ... | Darrang district ... | Khalingduar ... ... | 13,212 | 21 | ..... | ..... | 13,212 | 21 | |
| ,, ... | Central ... ... | ,, ,, ... | Balipara ... ... | 56,224 | 88 | ..... | ..... | 56 224 | 88 | |
| ,, ... | ,, ... ... | ,, ,, ... | Charduar ... ... | 66,983 | 105 | ..... | ..... | 66,983 | 105 | |
| ,, ... | ,, ... ... | ,, ,, ... | Bhamaraguri ... ... | 386 | 1 | ..... | ..... | 386 | 1 | |
| ,, ... | ,, ... ... | ,, ,, ... | Gorumari ... ... | 205 | ..... | ..... | ..... | 205 | ..... | |
| ,, ... | ,, ... ... | ,, ,, ... | Singri Hill ... ... | 1,200 | 2 | ..... | ..... | 1,200 | 2 | |
| ,, ... | Eastern ... ... | ,, ,, ... | Nowduar ... ... | 52,480 | 82 | ..... | ..... | 52,480 | 82 | |
| | | | Total ... ... ... | 190,690 | 298 | ..... | ..... | 190,690 | 298 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nowgong ... | Western ... ... | Nowgong district ... | Kholahat ... ... | 16,848 | 26 | ..... | ..... | 16,848 | 26 | |
| " ... | " ... ... | " " ... | Rongkhong ... ... | 6,339 | 10 | ..... | ..... | 6,339 | 10 | |
| " ... | " ... ... | " " ... | Sonaikusi ... ... | 10,754 | 17 | ..... | ..... | 10,754 | 17 | |
| " ... | Eastern ... ... | " " ... | Doboka ... ... | 29,014 | 45 | ..... | ..... | 29,014 | 45 | |
| " ... | " ... ... | " " ... | Diju ... ... | 5,742 | 9 | ..... | ..... | 5,742 | 9 | |
| " ... | " ... ... | " " ... | Suang ... ... | 1,924 | 3 | 4,688 | ..... | 6,612 | 10 | No. 2883R., dated the 30th July 1891. |
| " ... | " ... ... | " " ... | Bamuni ... ... | 449 | 1 | ..... | ..... | 449 | 1 | |
| " ... | " ... ... | " " ... | Jungthung ... ... | 8,047 | 13 | ..... | ..... | 8,047 | 13 | |
| " ... | " ... ... | " " ... | Sidharampur ... ... | 4,191 | 7 | ..... | ..... | 4,191 | 7 | |
| " ... | " ... ... | " " ... | Kukrakata Hill ... ... | 3,936 | 6 | ..... | ..... | 3,936 | 6 | |
| | | | Total ... ... ... | 87,244 | 136 | 4,688 | ..... | 91,932 | 144 | |
| Sibságar ... | Sibságar ... ... | Sibságar district ... | Diroi ... ... ... | 11,733 | 18 | ..... | ..... | 11,733 | 18 | |
| " ... | " ... ... | " " ... | Abhoipur ... ... | 16,281 | 25 | ..... | ..... | 16,281 | 25 | |
| " ... | " ... ... | " " ... | Sola ... ... ... | 1,778 | 3 | ..... | ..... | 1,778 | 3 | |
| " ... | Jorhát ... ... | " " ... | Holangapar ... ... | 4,912 | 8 | ..... | ..... | 4,912 | 8 | |
| " ... | " ... ... | " " ... | Desai ... ... ... | 6,912 | 11 | ..... | ..... | 6,912 | 11 | |
| " ... | Golághát ... ... | Nága Hills district ... | Nambor ... ... ... | 249,312 | 390 | ..... | ..... | 249,312 | 390 | |
| " ... | " ... ... | " " ... | Mikir Hills ... ... | 51,840 | 81 | ..... | ..... | 51,840 | 81 | |
| " ... | " ... ... | " " ... | Upper Daigurung ... ... | 5,312 | 8 | ..... | ..... | 5,312 | 8 | |
| " ... | " ... ... | " " ... | Lower " ... ... | 5,120 | 8 | ..... | ..... | 5,120 | 8 | |
| " ... | " ... ... | " " ... | Kaliani ... ... ... | 51,840 | 81 | ..... | ..... | 51,840 | 81 | |
| " ... | " ... ... | " " ... | Diphu ... ... ... | 42,080 | 66 | ..... | ..... | 42,080 | 66 | |
| " ... | " ... ... | " " ... | Rengma ... ... ... | 34,400 | 54 | ..... | ..... | 34,400 | 54 | |
| " ... | " ... ... | " " ... | Doyong ... ... ... | 60,875 | 95 | ..... | ..... | 60,875 | 95 | |
| | | | Total ... ... ... | 542,395 | 847 | ..... | ..... | 542,395 | 847 | |
| Lakhimpur ... | Dibrugarh ... ... | Lakhimpur district ... | Dehingmukh ... ... | 13,747 | 21 | ..... | ..... | 13,747 | 21 | |
| " ... | " ... ... | " " ... | Jokai ... ... ... | 11,858 | 19 | ..... | ..... | 11,858 | 19 | |
| " ... | " ... ... | " " ... | Dibru ... ... ... | 56,189 | 88 | ..... | ..... | 56,189 | 88 | |
| " ... | North Lakhimpur ... | " " ... | Bhorolowah ... ... | 5,280 | 8 | ..... | ..... | 5,280 | 8 | |
| " ... | " " ... | " " ... | Kuddum ... ... ... | 13,626 | 21 | ..... | ..... | 13,626 | 21 | |
| " ... | Makum ... ... | " " ... | Upper Dehing ... ... | 148,691 | 232 | ..... | ..... | 148,691 | 232 | |
| " ... | " ... ... | " " ... | Jaipur ... ... ... | 24,985 | 39 | ..... | ..... | 24,985 | 39 | |
| | | | Total ... ... ... | 274,376 | 429 | ..... | ..... | 274,376 | 429 | |
| Khási and Jaintia Hills. | Jowai ... ... | Khási and Jaintia Hills district. | Saipung ... ... ... | 32,000 | 50 | ..... | ..... | 32,000 | 50 | |
| " ... | Shillong ... ... | " " | Rist Khwan ... ... | ..... | ..... | 967 | ..... | 967 | 2 | No. 806R., dated the 5th March 1892. |
| | | | Total ... ... ... | 32,000 | 50 | 967 | ..... | 32,967 | 52 | |
| Gáro Hills ... | Northern ... ... | Gáro Hills district ... | Jinari ... ... | 6,640 | 10 | ..... | ..... | 6,640 | 10 | |
| " ... | " ... ... | " " ... | Chima and Bangshi ... | 8,680 | 14 | ..... | ..... | 8,680 | 14 | |
| " ... | " ... ... | " " ... | Dhima ... ... | 5,760 | 9 | ..... | ..... | 5,760 | 9 | |
| " ... | " ... ... | " " ... | Dilma ... ... | 1,120 | 2 | ..... | ..... | 1,120 | 2 | |
| " ... | " ... ... | " " ... | Rajasimla ... ... | 4,800 | 7 | ..... | ..... | 4,800 | 7 | |
| " ... | " ... ... | " " ... | Ildek ... ... | 1,280 | 2 | ..... | ..... | 1,280 | 2 | |
| " ... | " ... ... | " " ... | Darugiri ... ... | 2,448 | 4 | ..... | ..... | 2,448 | 4 | |

FORM No. 49—*concluded.*

| Division. | Range. | Civil district or territory | Name of forest. | Area on 1st April 1891. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1892. | | No and date of notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| Gáro Hills ... | Northern ... ... | Gáro Hills district ... | Rongrengiri ... ... | 8,860 | 14 | ..... | ..... | 8,860 | 14 | |
| " ... | " ... ... | " " ... | Dambu ... ... | 4,364 | 7 | ..... | ..... | 4,364 | 7 | |
| " ... | " ... ... | " " ... | Songsak ... ... | 8,005 | 13 | ..... | ..... | 8,005 | 13 | |
| " ... | Southern ... | " " ... | Emangiri ... ... | 2,080 | 3 | ..... | ..... | 2,080 | 3 | |
| " ... | " ... ... | " " ... | Rewak ... ... | 1,280 | 2 | ..... | ..... | 1,280 | 2 | |
| " ... | " ... ... | " " ... | Siju ... ... | 1,280 | 2 | ..... | ..... | 1,280 | 2 | |
| " ... | " ... ... | " " ... | Bagmara ... ... | 12,320 | 19 | ..... | ..... | 12,320 | 19 | |
| " ... | " ... ... | " " ... | Angratoli ... ... | 9,138 | 14 | ..... | ..... | 9,138 | 14 | |
| " ... | Western ... ... | " " ... | Dibru Hill ... ... | 6,080 | 9 | ..... | ..... | 6,080 | 9 | |
| " ... | " ... ... | " " ... | Bokalgiri ... ... | 640 | 1 | ..... | ..... | 640 | 1 | |
| " ... | " ... ... | " " ... | Tura ... ... | 480 | 1 | ..... | ..... | 480 | 1 | |
| | | | Total ... ... | 85,255 | 133 | ..... | ..... | 85,255 | 133 | |
| | | | Total Reserved Forests ... | 2,304,975 | 3,602 | 6,765 | ..... | 2,311,740 | 3,612 | |
| | | | (*b*) PROTECTED FORESTS. | | | | | | | |
| | | | *North Cachar Hills.* | | | | | | | |
| Cachar ... | North Cachar ... | Cachar district ... | Kapili Diyang ... ... | 191,200 | 299 | ..... | ..... | 191,200 | 299 | |
| " ... | " ... ... | " " ... | Diyangmati ... ... | 54,080 | 84 | ..... | ..... | 54,080 | 84 | |
| " ... | " ... ... | " " ... | Mupamahur ... ... | 20,960 | 33 | ..... | ..... | 20,960 | 33 | |
| " ... | " ... ... | " " ... | Langtengmupa ... ... | 58,560 | 92 | ..... | ..... | 58,560 | 92 | |
| | | | Total ... ... | 3,24,800 | 508 | ..... | ..... | 324,800 | 508 | |
| Sylhet ... | Patharkandi ... | Sylhet district ... | Raghunandan Hills ... ... | 30,926 | 48 | ..... | ..... | 30,926 | 48 | |
| " ... | " ... | " " ... | Tarap Hills ... ... | 37,760 | 59 | ..... | ..... | 37,760 | 59 | |
| " ... | " ... | " " ... | Putijuri Hills ... ... | 40,960 | 64 | ..... | ..... | 40,960 | 64 | |
| " ... | " ... | " " ... | Dinarpur ... ... ... | 4,460 | 7 | ..... | ..... | 4,460 | 7 | |
| " ... | " ... | " " ... | Patharia ... ... ... | 30,663 | 48 | ..... | (*a*) 2,578 | 28,085 | 44 | |
| " ... | " ... | " " ... | Dewalia ... ... ... | 5,780 | 9 | ..... | ..... | 5,780 | 9 | |
| | | | Total ... ... ... | 150,549 | 235 | ..... | 2,578 | 147,971 | 231 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Kámrúp ... | Singra ... ... | Kámrúp district ... | Jhari Khuri ... ... | 1,235 | 2 | ..... | ..... | 1,235 | 2 |
| " ... | " ... ... | " " ... | Bura Gohain ... ... | 620 | 1 | ..... | ..... | 620 | 1 |
| " ... | " ... ... | " " ... | Mogakhal ... ... | 180 | ..... | ..... | ..... | 180 | ..... |
| | | | Total ... ... ... | 2,035 | 3 | ..... | ..... | 2,035 | 3 |
| Sibságar ... | Sibságar ... ... | Sibságar district ... | Panidehingia ... ... | 19,200 | 30 | ..... | ..... | 19,200 | 30 |
| | | | Total ... ... ... | 19,200 | 30 | ..... | ..... | 19,200 | 30 |
| Lakhimpur ... | North Lakhimpur ... | Lakhimpur district ... | Kuddum ... ... ... | 2,240 | 3 | ..... | ..... | 2,240 | 3 |
| " ... | Dibrugarh ... ... | " " ... | Parapara... ... ... | 13,683 | 21 | ..... | ..... | 13,683 | 21 |
| " ... | " ... ... | " " ... | Jokai ... ... ... | 1,096 | 2 | ..... | ..... | 1,096 | 2 |
| " ... | Makum ... ... | " " ... | Solaguri ... ... ... | 68,122 | 106 | ..... | ..... | 68,122 | 106 |
| " ... | " ... ... | " " ... | Upper Dehing ... ... | 1,993 | 3 | ..... | ..... | 1,993 | 3 |
| " ... | " ... ... | " " ... | Makum ... ... ... | 2,644 | 4 | ..... | ..... | 2,644 | 4 |
| | | | Total ... ... ... | 89,778 | 140 | ..... | ..... | 89,778 | 140 |
| | | | Total Protected Forests ... | 586,362 | 916 | ..... | 2,578 | 583,784 | 912 |
| | | | (c) *Unclassed State Forests and Waste Lands.* | | | | | | |
| Cachar ... | ..... | Cachar district ... | Within revenue limits ... | 26,227 | 41 | (b)2,208 | (c)6,872 | 21,563 | 34 |
| Sylhet ... | ..... | Sylhet " ... | " " " ... | 8,000 | 12 | ..... | ..... | 8,000 | 12 |
| Goálpára ... | ..... | Goálpára " ... | " " " ... | 10,843 | 17 | ..... | ..... | 10,843 | 17 |
| Kámrúp ... | ..... | Kámrúp " ... | " " " ... | 319,461 | 499 | ..... | ..... | 319,461 | 499 |
| Darrang ... | ..... | Darrang " ... | " " " ... | 115,377 | 180 | ..... | (a)943 | 114,434 | 179 |
| Nowgong ... | ..... | Nowgong " ... | " " " ... | 140,970 | 220 | ..... | (d)4,744 | 136,226 | 213 |
| Sibságar ... | ..... | Sibságar " ... | " " " ... | 223,702 | 350 | (b)213 | (a)2,204 | 221,711 | 346 |
| Lakhimpur ... | ..... | Lakhimpur " ... | " " " ... | 1,242,316 | 1,941 | (b)8,299 | (a)18,541 | 1,232,074 | 1,925 |
| Cachar ... | ..... | Cachar " ... | Beyond " " ... | 135,040 | 211 | ..... | ..... | 135,040 | 211 |
| Lakhimpur ... | ..... | Lakhimpur " ... | " " " ... | 929,920 | 1,453 | ..... | ..... | 929,920 | 1,453 |
| Nága Hills ... | ..... | Nága Hills " ... | " " " ... | 146,423 | 229 | ..... | ..... | 146,423 | 229 |
| Khasi and Jaintia Hills. | ..... | Khasi and Jaintia Hills district. | " " " ... | 64,000 | 100 | ..... | ..... | 64,000 | 100 |
| Gáro Hills ... | ..... | Gáro Hills district ... | " " " ... | 138,745 | 217 | ..... | ..... | 138,745 | 217 |
| | | | Total unclassed Forests and Waste Lands. | 3,501,024 | 5,470 | 10,720 | 33,304 | 3,478,440 | 5,435 |
| | | | Grand total ... ... | 6,392,361 | 9,988 | 17,485 | 35,882 | 6,373,964 | 9,959 |

(a) Allotted for cultivation.
(b) Grants relinquished.

(c) 1,110 acres declared reserve and 5,762 acres allotted for cultivation.
(d) 4,688 acres declared reserve and 56 acres allotted for cultivation.

## FORM No. 50.

### FOREST DEPARTMENT, ASSAM.—REGISTER OF BREACHES OF FOREST RULES DURING 1891-92.

| Forest division and civil district. | Cases pending from 1890-91. | New cases of the year. | | | | | | Total cases. | Disposed of during the year. | | | | | | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire. | Unauthorised felling or appropriation of wood and minor forest produce. | Grazing without permission, or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | | Convictions. | | Acquittals | | Total | | |
| | | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| **A.—CASES TAKEN INTO COURT** | | | | | | | | | | | | | | | |
| Cachar Division—Cachar district .. | .... | ... | 3 | .... | 2 | 5 | 5 | 2 | 13 | 2 | 2 | 4 | 15 | 1 |
| Sylhet Division—Sylhet district .. | .... | .... | 107 | .... | 3 | 110 | 110 | 93 | 216 | 17 | 42 | 110 | 258 | .... |
| Goálpára Division—Goálpára district .. | .... | 4 | .... | 1 | 1 | 6 | 6 | 3 | 4 | 3 | 8 | 6 | 12 | .... |
| Darrang Division—Darrang district .. | 2 | 3 | 6 | .... | 1 | 10 | 12 | 7 | 17 | 2 | 6 | 9 | 23 | 3 |
| Nowgong Division—Nowgong district .. | 4 | .... | 7 | .... | 3 | 10 | 14 | 11 | 18 | 3 | 3 | 14 | 18 | .... |
| Sibságar Division—Sibságar district . | 10 | .... | 18 | 2 | 8 | 22 | 32 | 19 | 44 | 9 | 22 | 28 | 66 | |
| Lakhimpur Division—Lakhimpur district .. | .... | .... | 4 | .... | 1 | 5 | 5 | 4 | 25 | 1 | 4 | 5 | 29 | .... |
| Gáro Hills Division—Gáro Hills district . | .... | .... | 1 | .... | .... | 1 | 1 | 1 | 1 | .... | .... | 1 | 1 | .... |
| Khási and Jaintia Hills Division—Khási and Jaintia Hills district .. .. | .... | .... | 1 | .... | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | .... |
| Total .. .. | 16 | 7 | 144 | 3 | 17 | 171 | 187 | 141 | 336 | 38 | 88 | 179 | 424 | 8 |
| **B.—CASES DISPOSED OF UNDER SECTION 67 OF THE INDIAN FOREST ACT, 1878.** | | | | | | | | | | | | | | |
| Cachar Division—Cachar district .. | .... | .... | 8 | .... | 5 | 8 | 8 | 8 | 10 | .... | .... | 8 | 10 | .... |
| Sylhet Division—Sylhet district .. | .... | .... | 37 | .... | .... | 37 | 37 | 37 | 40 | .... | . | 37 | 40 | .... |
| Goálpára Division—Goálpára district .. | .... | 3 | 3 | .... | ... | 6 | 6 | 6 | 7 | .... | .... | 6 | 7 | .... |
| Kámrúp Division—Kámrúp district .. | .... | 2 | 1 | .... | 6 | 13 | 13 | 13 | 23 | .... | .... | 13 | 23 | .... |
| Darrang Division—Darrang district .. | .... | .... | 12 | .... | .... | 12 | 12 | 12 | 64 | .... | .... | 12 | 64 | .... |
| Nowgong Division—Nowgong district . | .... | .... | 46 | .... | .... | 46 | 46 | 46 | 46 | .... | .... | 46 | 46 | ... |
| Sibságar Division—Sibságar district .. | .... | .... | 59 | 4 | 1 | 64 | 64 | 64 | 99 | .... | .... | 64 | 99 | .... |
| Lakhimpur Division—Lakhimpur district .. | ... | .... | 40 | .... | .... | 40 | 40 | 40 | 73 | .... | .... | 40 | 73 | .... |
| Gáro Hills Division—Gáro Hills district .. | .... | 3 | 29 | 2 | .... | 34 | 34 | 34 | 53 | .... | .... | 34 | 53 | .... |
| Total .. .. | .... | 8 | 234 | 6 | 12 | 260 | 260 | 260 | 415 | .... | .... | 260 | 415 | .... |
| **C.—UNDETECTED CASES** | | | | | | | | | | | | | | |
| Cachar Division—Cachar district .. | .... | .... | 1 | ... | .... | 1 | 1 | .... | .... | .... | .... | .... | .... | .... |
| Darrang Division—Darrang district .. | .... | 4 | .... | ... | .... | 4 | 4 | .... | .... | .... | .... | .... | .... | .... |
| Nowgong Division—Nowgong district .. | .. . | 2 | .... | .... | .... | 2 | 2 | .... | .... | .... | .... | .... | .... | .... |
| Khási and Jaintia Hills Division—Khási and Jaintia Hills district .. .. | . . | .... | 2 | .... | .... | 2 | 2 | .... | .... | .... | .... | .... | .... | .... |
| Total . .. | .... | 6 | 3 | .... | .... | 9 | 9 | .... | .... | .... | .... | .... | .... | ... |
| Grand total A .. | 16 | 7 | 144 | 3 | 17 | 171 | 187 | 141 | 336 | 38 | 88 | 179 | 424 | 8 |
| Grand total B .. | .... | 8 | 234 | 6 | 12 | 260 | 260 | 260 | 415 | .... | .... | 260 | 415 | .... |
| Grand total C .. | .... | 6 | 3 | .... | .... | 9 | 9 | .... | ... | .... | .... | .... | .... | .... |

## FORM No. 51.

### Forest Department, Assam.—Area of Forest Tracts protected from Fire during the Dry Season, 1892.

| Division | Forest tracts | Year in which protection commenced | Area actually protected up to 15th June 1891 | During dry season of 1892 | | | Cost during the season |
|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected | Failures | Actually protected | |
| | **Goalpara District.** | | Acres | Acres | Acres | Acres | Rs |
| Goálpára | Bijni Duar | 1888-89 | 83,340 | 99,980 | 51,200 | 48,780 | 774 |
| | Sidli | 1876-77 | 43,757 | 43,757 | ..... | 43,757 | 1,616 |
| | Bengtol and Darogaon | 1881-87 | 7,470 | 7,470 | ..... | 7,470 | 239 |
| | Bhumeswar Hills | | 4,033 | 4,033 | ..... | 4,033 | 207 |
| | Bhur | 1889-90 | 3,855 | 3,855 | 1,440 | 2,415 | 159 |
| | Chirang Duar No I | " | 69,203 | 69,203 | ..... | 69,203 | 1,570 |
| | " " No. II | " | 89,043 | 90,643 | 36 | 90,607 | 1,159 |
| | Ripu Duar | " | 41,632 | 41,632 | ..... | 41,632 | 872 |
| | Jengasi Charaidaka | " | 1,730 | 1,730 | ..... | 1,730 | 116 |
| | Attabari | " | 9,180 | 9,180 | 1,280 | 7,900 | 368 |
| | Panbari and Pechadaveri | 1875-76 | 3,260 | 3,290 | ..... | 3,290 | 499 |
| | Sankos | 1889-90 | 8,320 | 28,800 | 25,600 | 3,200 | 1,159 |
| | Muktaigaon | 1887-88 | 2,880 | 3,200 | ..... | 3,200 | 88 |
| | Guma | 1876-77 | 15,776 | 15,776 | ..... | 15,776 | 1,076 |
| | Total | ..... | 379,619 | 422,549 | 79,556 | 342,993 | 9,902 |
| | **Kamrup District** | | | | | | |
| Kámrup | Borduar | 1873-74 | 15,696 | 15,896 | ..... | 15,896 | 910 |
| | Pantan | " | 21,910 | 21,910 | ..... | 21,910 | 530 |
| | Kulsi | " | 3,680 | 3,680 | ..... | 3,680 | 942 |
| | Milmilha | 1874-75 | 3,610 | 3,610 | 2,000 | 1,610 | 227 |
| | Mayang Hill | 1882-83 | 4,800 | 4,800 | ..... | 4,800 | 74 |
| | Chhaygaon | 1886-87 | 2,705 | 2,705 | 150 | 2,555 | 145 |
| | Matakhar | 1873-74 | 2,240 | 2,240 | ..... | 2,240 | 202 |
| | Jara | " | 820 | 820 | ... | 820 | 115 |
| | Rani { Mayang Block | 1882-83 | 6,000 | 6,000 | ..... | 6,000 | 258 |
| | Rani { Mairakanda Block | " | 4,400 | 4,400 | ..... | 4,400 | 267 |
| | Kawasing | " | 3,260 | 3,260 | ..... | 3,260 | 346 |
| | Simla Hills | " | 300 | 300 | ..... | 300 | 11 |
| | Dumpara | " | 450 | 450 | ..... | 450 | 11 |
| | Khaksi, Sikraburia Hill | " | 2,500 | 2,500 | ..... | 2,500 | 15 |
| | Ghoraputa | " | 100 | 100 | ..... | 100 | 4 |
| | Khatkhati Hills | " | 640 | 640 | ..... | 640 | 14 |
| | Taratbari | " | 700 | 700 | 500 | 200 | 8 |
| | Garubaldha | " | 100 | 200 | ..... | 200 | 19 |
| | Khurkhuri | " | 140 | 140 | ..... | 140 | 7 |
| | Sursuria Hills | " | 900 | 900 | ..... | 900 | 20 |
| | Gizang | " | 930 | 930 | ..... | 930 | 39 |
| | Jaipur | " | 774 | 774 | ..... | 774 | 45 |
| | Batadobha | 1889-90 | 1,000 | 1,000 | ..... | 1,000 | 34 |
| | Nampathar | " | 400 | 400 | ..... | 400 | 26 |
| | Barjuli | " | 1,000 | 1,000 | ..... | 1,000 | 31 |
| | Hajo | " | 240 | 240 | ..... | 240 | 84 |
| | Jharikhuri protected forest | " | 700 | 700 | ..... | 700 | 30 |
| | Bura Gohain " " | " | 400 | 400 | ..... | 400 | 18 |
| | Mogakhal " " | " | 170 | 170 | ..... | 170 | 12 |
| | Darunga proposed reserve | 1890-91 | 32,000 | 32,000 | ..... | 32,000 | 378 |
| | Bagai, Bongaon, Boko, and Luki unclassed forests | " | 2,000 | 2,000 | ..... | 2,000 | 56 |
| | Total | ..... | 114,565 | 114,865 | 2,650 | 112,215 | 4,878 |
| | **Darrang District** | | | | | | |
| Darrang | Khalingduar | 1883-84 | 12,892 | 12,892 | 110 | 12,782 | 172 |
| | Bahpara | 1873-74 | 4,050 | 4,570 | 50 | 4,520 | 336 |
| | Charduar | 1878-79 | 892 | 892 | ..... | 892 | ..... |
| | Gorumari | 1874-75 | 180 | 180 | 10 | 170 | 61 |
| | Bamuni Hill plantation | 1878-79 | 8 | 8 | ..... | 8 | 10 |
| | Total | ..... | 18,022 | 18,542 | 170 | 18,372 | 579 |

FORM No. 51—*concluded.*

| Division. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 18th June 1891. | During dry season of 1892. | | | Cost during the season. |
|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Failures. | Actually protected. | |
| | | | Acres. | Acres. | Acres | Acres. | Rs |
| | **NOWGONG DISTRICT.** | | | | | | |
| Nowgong ... | Kholahat ... ... | 1873-74 | 16,848 | 16,848 | ..... | 16,848 | 186 |
| | Rongkhong ... ... | 1889-90 | 6,000 | 6,000 | ..... | 6,000 | 57 |
| | Sonaikusi ... ... | 1888-89 | 10,000 | 10,000 | ..... | 10,000 | 60 |
| | Doboka ... ... | 1873-74 | 28,140 | 28,640 | 1,440 | 27,200 | 105 |
| | Diju ... ... | 1879-80 | 5,742 | 5,742 | 1,000 | 4,742 | 25 |
| | Suang ... ... | 1885-86 | 1,924 | 1,924 | ..... | 1,924 | 28 |
| | Bamuni ... ... | " | 449 | 449 | 449 | ..... | 11 |
| | Jungthung ... ... | 1889-90 | 8,000 | 8,000 | ..... | 8,000 | 51 |
| | Sildharampur ... ... | " | 3,457 | 3,457 | ..... | 3,457 | 51 |
| | Kukrakata Hill ... | " | 3,700 | 3,700 | ..... | 3,700 | 3 |
| | Total ... ... | ..... | 84,260 | 84,760 | 2,889 | 81,871 | 577 |
| | **KHASI AND JAINTIA HILLS DISTRICT.** | | | | | | |
| Khási and Jaintia Hills | Riat Khwan ... ... | 1881-82 | 960 | 967 | 123 | 844 | 401 |
| | Shillong unclassed forests... | 1874-75 | 3,618 | 3,618 | 5 | 3,613 | 776 |
| | Total ... ... | ..... | 4,578 | 4,585 | 128 | 4,457 | 1,177 |
| | **GARO HILLS DISTRICT.** | | | | | | |
| Gáro Hills ... | Jinari ... ... | 1889-90 | 6,615 | 6,640 | ..... | 6,040 | 145 |
| | Chima and Bangshi ... | " | 8,680 | 8,680 | ..... | 8,680 | 349 |
| | Dhima ... ... | " | 5,730 | 5,760 | 540 | 5,220 | 156 |
| | Dilma ... ... | " | 1,085 | 1,120 | 70 | 1,050 | 85 |
| | Raja Simla ... ... | " | 4,790 | 4,800 | ..... | 4,800 | 99 |
| | Ildek ... ... | " | 1,280 | 1,280 | ..... | 1,280 | 68 |
| | Darugiri ... ... | 1887-88 | 2,448 | 2,448 | 60 | 2,388 | 105 |
| | Rongrengiri ... ... | 1889-90 | 7,860 | 8,860 | ..... | 8,860 | 195 |
| | Dambu ... ... | 1887-88 | 4,364 | 4,364 | 490 | 3,874 | 261 |
| | Songsak ... ... | 1889-90 | 8,005 | 8,005 | 2,000 | 6,005 | 196 |
| | Emangiri ... ... | " | 2,080 | 2,080 | ..... | 2,080 | 86 |
| | Rewak ... ... | " | 1,280 | 1,280 | ..... | 1,280 | 68 |
| | Siju ... ... | " | 1,280 | 1,280 | ..... | 1,280 | 36 |
| | Bagmara ... ... | " | 12,320 | 12,320 | ..... | 12,320 | 83 |
| | Angratoli ... ... | " | 9,135 | 9,138 | 2 | 9,136 | 155 |
| | Dibru Hill ... ... | " | 6,080 | 6,080 | ..... | 6,080 | 110 |
| | Bolsalgiri ... ... | " | 640 | 640 | ..... | 640 | 57 |
| | Tura ... ... | " | 480 | 480 | 1 | 479 | 116 |
| | Total ... ... | ..... | 84,152 | 85,255 | 3,163 | 82,092 | 2,370 |
| | Grand total ... ... | ..... | 6,85,196 | 7,30,556 | 88,556 | 6,42,000 | 19,483 |

FORM No. 52.

FOREST DEPARTMENT, ASSAM.—AREA OF PLANTATIONS, 1891-92.

| Division. | Name of plantation. | Area in acres. On 1st April 1891. | Added during the year. | Excluded during the year. | Area on 31st March 1892 | Receipts of the year. | Charges of the year. |
|---|---|---|---|---|---|---|---|
| *Regular Plantations.* | *Kulsi Plantation.* | | | | | Rs. | Rs. |
| Kámrúp ... | Caoutchouc ... ... | 160 | ... | ... | 160 | ..... | 240 |
| | Teak ... ... | 171 | ... | .. | 171 | 83 | 31 |
| | Sisu ... ... | 20 | ... | ... | 20 | ..... | 42 |
| | Khoir ... ... | 12 | ... | ... | 12 | ..... | 147 |
| | Bamboo ... ... | 2 | ... | ... | 2 | ..... | 2 |
| | Miscellaneous ... ... | 2 | ... | ... | 2 | ..... | 100 |
| | Total ... ... | 367 | ... | ... | 367 | 83 | 562 |
| Darrang ... | *Charduar Plantation.* | | | | | | |
| | Caoutchouc ... ... | 1,763 | ... | | 1,763 | ..... | 4,898 |
| | *Bamuni Hill Plantation.* | | | | | | |
| | Caoutchouc ... ... | 8 | ... | ... | 8 | ..... | ..... |
| | Total ... ... | 1,771 | ... | ... | 1,771 | ..... | 4,898 |
| | Total Regular Plantations ... | 2,138 | ... | ... | 2,138 | 83 | 5,460 |
| *Cultural Operations.* | | | | | | | |
| Cachar ... | Sowing on blanks in the Upper Jiri reserve ... ... | ... | ... | ... | ... | ..... | 4 |
| Goálpára ... | Guma bamboo plantation ... | ... | ... | ... | ... | ..... | 22 |
| Nowgong ... | Sowings on blanks in reserves.. | ... | ... | ... | ... | ..... | 18 |
| Sibságar ... | Nambor timber plantation ... | 168 | ... | ... | 168 | ..... | 239 |
| Lakhimpur ... | Makai nursery in the Makum forest ... ... | ... | ... | ... | ... | ..... | 21 |
| Khási and Jaintia Hills. | Sowing on blanks at Shillong... | ... | ... | ... | ... | ..... | 3 |
| Gáro Hills ... | „ in the Raja Simla reserve ... ... | ... | ... | .. | .. | ..... | 5 |
| „ ... | Cinchona nursery at Tura ... | ... | ... | ... | ... | ..... | 22 |
| „ ... | Sâl nursery in the Dambu reserve ... ... | ... | ... | ... | ... | ..... | 194 |
| | Total Cultural Operations ... | 168 | ... | ... | 168 | ..... | 528 |
| | Grand total ... ... | 2,306 | ... | ... | 2,306 | 83 | 5,988 |

# FORM No. 54.

## FOREST DEPARTMENT, ASSAM.—OUTTURN (IN CUBIC FEET, SOLID) OF TIMBER AND FUEL DURING THE YEAR 1891-92, AND AGENCY OF EXPLOITATION.

| Division. | Timber in the rough, logs. | | | | | Timber in the rough, poles. | | | | | Sawn or squared, timber. | | | | | Miscellaneous. | | | | | Fuel. | | | | | Total outturn. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government. | Purchasers. | Free grantees. | Rightholders. | Total. | Government. | Purchasers. | Free grantees. | Rightholders. | Total. | Government. | Purchasers. | Free grantees. | Rightholders. | Total. | Government. | Purchasers. | Free grantees. | Rightholders. | Total. | Government. | Purchasers. | Free grantees. | Rightholders. | Total. | |
| | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. |
| **I.—Reserved Forests—** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cachar .. .. .. | .... | 235,996 | ..... | .. | 235,996 | .. | 440 | .... | .. | 440 | .. | ..... | .. | .. | ..... | .... | ..... | .... | .. | ..... | .. | 5,817 | ..... | .. | 5,817 | 242,253 |
| Sylhet.. .. .. | .... | 38,245 | ..... | .. | 38,245 | .. | 796 | .... | .. | 796 | .. | ..... | .. | .. | ..... | .... | ..... | 249 | .. | 249 | .. | 5,892 | ..... | .. | 5,892 | 45,182 |
| Goálpara .. .. | 50,154 | 138,081 | ..... | .. | 188,235 | .. | 42,256 | 40,056 | .. | 82,312 | .. | ..... | .. | .. | ..... | .... | 3,892 | .... | .. | 3,892 | .. | 1,916 | 302,768 | .. | 303,984 | 675,423 |
| Kamrúp .. .. | 3,088 | 86,534 | 440 | .. | 90,089 | 586 | 2,171 | 90 | .. | 2,827 | .. | 22 | .. | .. | 22 | 530 | 17,889 | 3,983 | .. | 22,402 | 192 | 64 | 44,600 | .. | 44,856 | 160,167 |
| Darrang .. .. | 1,800 | 93,490 | 1,200 | .. | 96,490 | .. | .... | .... | .. | ..... | .. | ..... | .. | .. | ..... | .... | 2,660 | .... | .. | 2,660 | .. | 1,344 | ..... | .. | 1,344 | 100,494 |
| Nowgong .. .. | .... | 10,770 | 80 | .. | 10,850 | .. | 2,792 | .... | .. | 2,792 | .. | ..... | .. | .. | ..... | .... | ..... | .... | .. | ..... | .. | 10,496 | 56,400 | .. | 66,896 | 80,538 |
| Sibságar .. .. | .... | 17,250 | 1,380 | .. | 18,630 | . | 4,448 | 3,228 | .. | 7,676 | .. | ..... | .. | .. | ..... | .... | 396 | .... | .. | 396 | .. | 1,728 | ..... | .. | 1,728 | 28,430 |
| Lakhimpur .. .. | .... | 8,190 | ..... | .. | 8,190 | .. | .... | .... | .. | ..... | .. | ..... | .. | .. | ..... | .... | ..... | .... | .. | ..... | .. | ..... | ..... | .. | ..... | 8,190 |
| Khási and Jaintia Hills .. | .... | 160 | ..... | .. | 160 | . | .... | .... | .. | ..... | .. | ..... | .. | .. | ..... | .... | ..... | .... | .. | ..... | .. | 1,408 | ..... | .. | 1,408 | 1,568 |
| Gáro Hills .. .. | .... | 59,212 | ..... | .. | 59,212 | .. | .... | .... | .. | ..... | .. | ..... | .. | .. | ..... | .... | 1,036 | .... | .. | 1,036 | .. | ..... | ..... | .. | ..... | 60,248 |
| Total .. .. .. | 55,039 | 684,928 | 3,100 | .. | 743,067 | 586 | 52,903 | 43,374 | .. | 96,843 | .. | 22 | .. | .. | 22 | 630 | 26,122 | 3,983 | .. | 30,635 | 192 | 27,965 | 403,768 | .. | 431,925 | 1,302,493 |
| **II.—Protected Forests—** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cachar .. .. .. | .... | 2,730 | ..... | .. | 2,730 | .. | .... | ... | .. | ..... | .. | ..... | .. | .. | ..... | .... | ..... | .... | .. | ..... | .. | ..... | ..... | . | ..... | 2,730 |
| Sylhet . .. .. | .... | 22,727 | ..... | .. | 22,727 | .. | 1,320 | .... | .. | 1,320 | .. | 598 | .. | .. | 598 | .... | 282 | 11,636 | .. | 11,918 | .. | 6,546 | 779,894 | .. | 786,440 | 822,003 |
| Kamrúp .. .. | .... | ..... | ..... | .. | ..... | .. | .... | ... | .. | ..... | .. | ..... | .. | .. | ..... | .... | 62 | .... | .. | 62 | .. | ..... | 3,400 | .. | 3,400 | 3,462 |
| Total .. .. .. | .... | 25,457 | ..... | .. | 25,457 | .. | 1,320 | .... | .. | 1,320 | .. | 598 | .. | .. | 598 | .... | 344 | 11,636 | .. | 11,980 | .. | 6,546 | 783,294 | .. | 789,840 | 829,195 |
| **III.—Unclassed Forests—** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cachar .. .. .. | .... | 70,088 | ..... | | 70,088 | .. | 944 | 7,764 | .. | 8,708 | .. | ..... | .. | .. | ..... | 3,561 | 843 | .... | . | 4,404 | .. | 4,289 | 94,500 | .. | 98,789 | 182,539 |
| Sylhet .. .. .. | .... | 11,786 | ..... | .. | 11,786 | .. | 804 | .... | .. | 804 | .. | 194 | .. | .. | 194 | .... | 12,315 | 5,768 | .. | 8,083 | .. | 3,162 | 143,914 | .. | 147,076 | 167,943 |
| Goálpara .. .. | 8,765 | 3,290 | 38,430 | .. | 48,476 | .. | 1,179 | 5,252 | .. | 6,431 | .. | ..... | .. | .. | ..... | .... | 352 | .... | .. | 352 | .. | 32 | 139,194 | . | 139,226 | 191,884 |
| Kámrúp .. .. | .... | 39,041 | 38,970 | .. | 78,011 | .. | 119 | .... | .. | 119 | .. | ..... | .. | .. | ..... | .... | 5,974 | 1,540 | .. | 8,514 | .. | 5,238 | 62,300 | .. | 68,538 | 155,172 |
| Darrang .. .. | .... | 145,830 | 114,360 | .. | 260,190 | .. | 968 | .... | .. | 968 | .. | ..... | .. | .. | ..... | .... | 1,590 | .... | .. | 1,590 | .. | 6,884 | 172,192 | .. | 179,076 | 441,824 |
| Nowgong .. .. | .... | 46,710 | 36,680 | .. | 83,390 | .. | 9,097 | .... | .. | 9,097 | .. | ..... | .. | .. | ..... | .... | 11,541 | .... | .. | 11,541 | .. | 18,504 | 320,948 | .. | 339,452 | 440,480 |
| Sibsagar .. .. | .... | 40,960 | 105,960 | .. | 146,920 | .. | 18,136 | .... | .. | 18 136 | .. | ..... | .. | . | ..... | 2,785 | 3,925 | 78,360 | . | 85,070 | 5,310 | 29,899 | 242,294 | . | 277,506 | 527,762 |
| Lakhimpur .. .. | .... | 70,118 | 50,700 | . | 120,818 | . | 2,416 | 48 | .. | 2,464 | .. | 135,597 | .. | .. | 135,597 | .... | 6,610 | .... | .. | 6,610 | .. | 88,840 | 45,520 | . | 134,360 | 399,849 |
| Khási and Jaintia Hills .. | .... | 563 | ..... | .. | 563 | .. | 384 | 1,000 | .. | 1,384 | 50 | ..... | .. | .. | 50 | 12 | ..... | .... | . | 12 | .. | 6,840 | ..... | .. | 6,840 | 8,849 |
| Gáro Hills .. .. | 6,108 | 133,868 | ..... | . | 139,976 | .. | .... | .... | . | ..... | 21 | ..... | .. | . | 21 | 1,035 | 66,856 | .... | .. | 67,891 | .. | ..... | ..... | .. | ..... | 207,888 |
| Total .. .. .. | 9,873 | 562,234 | 385,120 | .. | 957,227 | . | 34 047 | 14,164 | .. | 48,211 | 71 | 135,791 | .. | .. | 135,862 | 7,393 | 102,106 | 85,568 | . | 195,067 | 5,310 | 160,151 | 1,221,762 | .. | 1,387,223 | 2,723,890 |
| Grand total .. | 64,912 | 1,272,619 | 388,220 | .. | 1,725,751 | 586 | 88,270 | 57,538 | .. | 146,374 | 71 | 136,412 | .. | .. | 136,483 | 7,923 | 128,572 | 101,187 | .. | 237,682 | 5,502 | 194,662 | 2,408,824 | .. | 2,608,988 | 4,855,278 |

FORM No. 55.

FOREST DEPARTMENT, ASSAM.—OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1891-92.

| Division. | Description of produce. | Produce removed or utilised. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| | *(a) Reserved Forests.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Cachar ... | Bamboos (No.) ... ... | 200 | ..... | 669,942 | 1,675 | ..... | ..... | ..... | ..... | 670,142 | 1,675 |
| | Canes (bundles) ... ... | ..... | ..... | 22,260 | 1,394 | ..... | ..... | ..... | ..... | 22,260 | 1,394 |
| | Pathi (*dals*) ... ... | ..... | ..... | 20,800 | 13 | ..... | ..... | ..... | ..... | 20,800 | 13 |
| | Total ... ... ... | ..... | ..... | ..... | 3,082 | ..... | ..... | ..... | ..... | ..... | 3,082 |
| Sylhet ... | Bamboos (No.) ... ... | ..... | ..... | 521,520 | 1,304 | ..... | ..... | ..... | ..... | 521,520 | 1,304 |
| | Canes (bundles) ... ... | ..... | ..... | 5,514 | 344 | ..... | ..... | ..... | ..... | 5,514 | 344 |
| | Reeds (c. ft.) ... ... | ..... | ..... | 35 | 1 | ..... | ..... | ..... | ..... | 35 | 1 |
| | Thatching grass (c. ft.) ... | ..... | ..... | 145,088 | 363 | ..... | ..... | ..... | ..... | 145,088 | 363 |
| | Pathi (*dals*) ... ... | ..... | ..... | 52,375 | 33 | ..... | ..... | ..... | ..... | 52,375 | 33 |
| | Total ... ... ... | ..... | ..... | ..... | 2,045 | ..... | ..... | ..... | ..... | ..... | 2,045 |
| Goálpára ... | Canes (bundles) ... ... | ..... | ..... | 900 | 7 | 910 | 7 | ..... | ..... | 1,810 | 14 |
| | Total ... ... ... | ..... | ..... | ..... | 7 | ..... | 7 | ..... | ..... | ..... | 14 |

FORM No. 55—*continued.*

| Division. | Description of produce. | Produce removed or utilised. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Kámrúp ... | Bamboos (No.) ... ... | 529 | 7 | 682 | 7 | 84,900 | 849 | ..... | ..... | 86,111 | 863 |
| | Canes (bundles) ... ... | ..... | ..... | ..... | ..... | 2,175 | 16 | ..... | ..... | 2,175 | 16 |
| | Reeds (c. ft.) ... ... | 60 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | 60 | 2 |
| | Thatching grass (c. ft.) ... | 14,660 | 37 | ..... | ..... | ..... | ..... | ..... | ..... | 14,660 | 37 |
| | Trees for rearing silkworms (No.) ... | ..... | ..... | 158 | 22 | ..... | ..... | ..... | ..... | 158 | 22 |
| | Fruits ... ... ... | ..... | ..... | ..... | 2 | ..... | ..... | ..... | ..... | ..... | 2 |
| | Pathi (*dals*) ... ... | ..... | ..... | 100 | ..... | ..... | ..... | ..... | ..... | 100 | ..... |
| | Cutch (Mds.) ... ... | 46 | 539 | ..... | ..... | ..... | ..... | ..... | ..... | 46 | 539 |
| | Total ... ... ... | ..... | 585 | ..... | 31 | ..... | 865 | ..... | ..... | ..... | 1,481 |
| Darrang ... | Cutch (Mds.) ... ... | 5 | 136 | ..... | ..... | ..... | ..... | ..... | ..... | 5 | 136 |
| | Total ... ... ... | ..... | 136 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 136 |
| Nowgong ... | Bamboos (No.) ... ... | ..... | ..... | 462 | 8 | 37,800 | 378 | ..... | ..... | 38,262 | 386 |
| | Canes (bundles) ... ... | ..... | ..... | 10,311 | 77 | 480 | 4 | ..... | ..... | 10,791 | 81 |
| | Thatching grass (c. ft.) ... | ..... | ..... | 7,200 | 18 | ..... | ..... | ..... | ..... | 7,200 | 18 |
| | Total ... ... ... | ..... | ..... | ..... | 103 | ..... | 382 | ..... | ..... | ..... | 485 |
| Sibságar ... | Bamboos (No.) ... ... | ..... | ..... | 3,630 | 29 | ..... | ..... | ..... | ..... | 3,630 | 29 |
| | Grazing ( „ ) ... ... | ..... | ..... | 303 | 139 | ..... | ..... | ..... | ..... | 303 | 139 |
| | Canes (bundles) ... ... | ..... | ..... | 2,400 | 18 | ..... | ..... | ..... | ..... | 2,400 | 18 |
| | Thatching grass (c. ft.) ... | ..... | ..... | 2,600 | 7 | ..... | ..... | ..... | ..... | 2,600 | 7 |
| | Bilgrass (*Phrynium dichotomum*) *mahál* ... ... ... | ..... | ..... | ..... | 110 | ..... | ..... | ..... | ..... | ..... | 110 |
| | Total ... ... ... | ..... | ..... | ..... | 303 | ..... | ..... | ..... | ..... | ..... | 303 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Khási and Jaintia Hills. | Reeds (c ft.) ... ... | ..... | ..... | 90 | 11 | ..... | ..... | ..... | ..... | 90 | 11 |
| | Thatching grass (c. ft.) .. | 600 | 6 | 8,300 | 21 | ..... | ..... | ..... | ..... | 8,900 | 27 |
| | Total ... ... ... | ..... | 6 | ..... | 32 | ..... | ..... | ..... | ..... | ... ... | 38 |
| Gáro Hills ... | Grazing (No.) ... ... | ..... | ..... | 12 | 6 | ..... | ..... | ..... | ..... | 12 | 6 |
| | Total ... ... ... | ..... | ..... | ..... | 6 | ..... | ..... | ..... | ..... | ..... | 6 |
| | Total Reserved Forests ... | ..... | 727 | ..... | 5,609 | ..... | 1,254 | ..... | ..... | ..... | 7,590 |
| | *(b) Protected Forests.* | | | | | | | | | | |
| Sylhet ... | Bamboos (No.) ... ... | ..... | ..... | 452,922 | 543 | 1,340,000 | 3,239 | ..... | ..... | 1,792,922 | 3,782 |
| | Canes (bundles) ... ... | ..... | ..... | 2,679 | 167 | 24,121 | 1,508 | ..... | ..... | 26,800 | 1,675 |
| | Reeds (c. ft.) ... ... | ..... | ..... | 5,510 | 177 | 29,710 | 928 | ..... | ..... | 35,220 | 1,105 |
| | Pathi (*dals*) ... ... | ..... | ..... | 8,925 | 6 | 10,000 | 6 | ..... | ..... | 18,925 | 12 |
| | Thatching grass (c. ft.) ... | ..... | ..... | 207,229 | 519 | 537,000 | 1,342 | ..... | ..... | 744,229 | 1,861 |
| | " " *mahál* ... | ..... | ..... | ..... | 697 | ..... | ..... | ..... | ..... | ..... | 697 |
| | Total ... ... ... | ..... | ..... | ..... | 2,109 | ..... | 7,023 | ..... | ..... | ..... | 9,132 |
| | Total Protected Forests ... | ..... | ..... | ..... | 2,109 | ..... | 7,023 | ..... | ..... | ..... | 9,132 |
| | *(c) Unclassed State Forests and Waste Lands* | | | | | | | | | | |
| Cachar ... | Bamboos (No.) ... ... | ..... | ..... | 297,705 | 744 | 64,400 | 161 | ..... | ..... | 362,105 | 905 |
| | Canes (bundles) ... ... | ..... | ..... | 1,653 | 103 | 1,625 | 102 | ..... | ..... | 3,278 | 205 |
| | Reeds (c. ft.) .. ... | ..... | ..... | 124 | 4 | 2,560 | 80 | ..... | ..... | 2,684 | 84 |
| | Thatching grass (c. ft.) ... | ..... | ..... | 52,700 | 132 | 54,100 | 135 | ..... | ..... | 106,800 | 267 |
| | Murtha " (bundles) ... | ..... | ..... | 175 | 5 | ..... | ..... | ..... | ..... | 175 | 5 |
| | Agar (baskets) ... ... | ..... | ..... | 12 | 18 | ..... | ..... | ..... | ..... | 12 | 18 |
| | Total ... ... ... | ..... | ..... | ..... | 1,006 | ..... | 478 | ..... | ..... | ..... | 1,484 |

FORM No. 55—*continued.*

| Division. | Description of produce. | Produce removed or utilised. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| | | | | | Rs. | | Rs. | | Rs. | | Rs. |
| Sylhet ... | Bamboos (No.) ... ... | ..... | ..... | 82,335 | 183 | 288,850 | 722 | ..... | ..... | 371,185 | 905 |
| | Canes (bundles) ... ... | ..... | ..... | 776 | 48 | 4,329 | 270 | ..... | ..... | 5,105 | 318 |
| | Reeds (c. ft.) ... ... | ..... | ..... | ..... | ..... | 13,674 | 427 | ..... | ..... | 13,674 | 427 |
| | Pathi (*dals*) ... ... | ..... | ..... | 4,575 | 3 | 27,125 | 17 | ..... | ..... | 31,700 | 20 |
| | Thatching grass (c. ft.) ... | ..... | ..... | 99,100 | 248 | 750 | 2 | ..... | ..... | 99,850 | 250 |
| | " " *mahál*... ... | ..... | ..... | ..... | 901 | ..... | ..... | ..... | ..... | ..... | 901 |
| | Total ... ... ... | ..... | ..... | ..... | 1,383 | ..... | 1,438 | ..... | ..... | ..... | 2,821 |
| Goálpára ... | Bamboos (No.) ... ... | ..... | ..... | 250 | 5 | ..... | ..... | ..... | ..... | 250 | 5 |
| | Grazing " ... ... | ..... | ..... | 22 | 11 | ..... | ..... | ..... | ..... | 22 | 11 |
| | Canes (bundles) ... ... | ..... | ..... | 12,343 | 93 | 3,826 | 29 | ..... | ..... | 16,169 | 122 |
| | Reeds (c. ft.) ... ... | ..... | ..... | 43,976 | 1,355 | ..... | ..... | ..... | ..... | 43,976 | 1,355 |
| | Thatching grass (c. ft.) ... | ..... | ..... | 1,793,432 | 4,484 | ..... | ..... | ..... | ..... | 1,793,432 | 4,484 |
| | Total ... ... ... | ..... | ..... | ..... | 5,948 | ..... | 29 | ..... | ..... | ..... | 5,977 |
| Kámrúp ... | Bamboos (No.) ... ... | ..... | ..... | 2,000 | 48 | 17,600 | 176 | ..... | ..... | 19,600 | 224 |
| | Grazing " ... ... | ..... | ..... | 1,208 | 302 | ..... | ..... | ..... | ..... | 1,208 | 302 |
| | Trees for rearing silk-worms (No.)... | ..... | ..... | 193 | 32 | ..... | ..... | ..... | ..... | 193 | 32 |
| | Total ... ... ... | ..... | ..... | ..... | 382 | ..... | 176 | ..... | ..... | ..... | 558 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Darrang ... | Bamboos (No.) ... | ... | ..... | ..... | ..... | ..... | 23,375 | 234 | ..... | ..... | 23,375 | 234 |
| | Grazing „ ... | ... | ..... | ..... | 889 | 443 | ..... | ..... | ..... | ..... | 889 | 443 |
| | Canes (bundles) ... | ... | ..... | ..... | ..... | ..... | 11,330 | 85 | ..... | ..... | 11,330 | 85 |
| | India-rubber (seers) ... | ... | ..... | ..... | 6 | 6 | ..... | ..... | ..... | ..... | 6 | 6 |
| | „ „ *mahál* ... | ... | ..... | ..... | ..... | 21,005 | ..... | ..... | ..... | ..... | ..... | 21,005 |
| | Cane „ ... | ... | ..... | ..... | ..... | 430 | ..... | ..... | ..... | ..... | ..... | 430 |
| | Pipul (pepper) „ ... | ... | ..... | ..... | ..... | 175 | ..... | ..... | ..... | ..... | ..... | 175 |
| | Udal (*Stercula viloso*) *mahál* | ... | ..... | ..... | ..... | 25 | ..... | ..... | ..... | ..... | ..... | 25 |
| | Murtha grass „ | ... | ..... | ..... | ..... | 12 | ..... | ..... | ..... | ..... | ..... | 12 |
| | Total ... ... | ... | ..... | ..... | ..... | 22,096 | ..... | 319 | ..... | ..... | ..... | 22,415 |
| Nowgong ... | Bamboos (No.) ... | ... | ..... | ..... | 45,636 | 867 | 90,750 | 907 | ..... | ..... | 136,386 | 1,774 |
| | Grazing „ ... | ... | ..... | ..... | 1,436 | 718 | ..... | ..... | ..... | ..... | 1,136 | 718 |
| | Canes (bundles) ... | ... | ..... | ..... | 28,712 | 215 | 6,781 | 51 | ..... | ..... | 35,493 | 266 |
| | Total ... ... | ... | ..... | ..... | ..... | 1,800 | ..... | 958 | ..... | ..... | ..... | 2,758 |
| Sibságar ... | Bamboos (No.) ... | ... | ..... | ..... | 6,100 | 64 | 54,053 | 541 | ..... | ..... | 60,153 | 605 |
| | Grazing „ ... | ... | ..... | ..... | 3,030 | 1,515 | ..... | ..... | ..... | ..... | 3,030 | 1,515 |
| | Elephant tusk „ . | ... | ..... | ..... | 1 | 1 | ..... | ..... | ..... | ..... | 1 | 1 |
| | Canes (bundles) ... | ... | ..... | ..... | ..... | ..... | 8,340 | 63 | ..... | ..... | 8,340 | 63 |
| | Cane *mahál* ... | ... | ..... | ..... | ..... | 518 | ..... | ..... | ..... | ..... | ..... | 518 |
| | Lac „ ... | ... | ..... | ..... | ..... | 20 | ..... | ..... | ..... | ..... | ..... | 20 |
| | Total ... ... | ... | ..... | ..... | ..... | 2,118 | ..... | 604 | ..... | ..... | ..... | 2,722 |
| Lakhimpur ... | Bamboos (No.) .. | ... | ..... | ..... | 32,605 | 525 | 31,280 | 592 | ..... | ..... | 63,885 | 1,117 |
| | Grazing „ ... | ... | ..... | ..... | 2,929 | 1,464 | ..... | ..... | ..... | ..... | 2,929 | 1,464 |
| | Pathi (*dals*) ... | ... | ..... | ..... | 10,400 | 7 | ..... | ..... | ..... | ..... | 10,400 | 7 |
| | Canes (bundles) ... | ... | ..... | ..... | 9,500 | 71 | 2,830 | 21 | ..... | ..... | 12,330 | 92 |
| | Cane *mahál* ... | ... | ..... | ..... | ..... | 2,100 | ..... | ..... | ..... | ..... | ..... | 2,100 |
| | India-rubber „ ... | ... | ..... | ..... | ..... | 4,000 | ..... | ..... | ..... | ..... | ..... | 4,000 |
| | Total ... ... | ... | ..... | ..... | ..... | 8,167 | ..... | 613 | ..... | ..... | ..... | 8,780 |
| Nága Hills ... | India-rubber *mahál* ... | ... | ..... | ..... | ..... | 270 | ..... | ..... | ..... | ..... | ..... | 270 |
| | Total ... ... | ... | ..... | ..... | ..... | 270 | ..... | ..... | ..... | ..... | ..... | 270 |

FORM No. 65—*concluded.*

| Division. | Description of produce. | Produce removed or utilised. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| | | | Rs | | Rs. | | Rs. | | Rs. | | Rs |
| Khási and Jaintia Hills. | Thatching grass (c. ft.) ... | ..... | ..... | 2,600 | 9 | 12,500 | 31 | ..... | ..... | 15,100 | 40 |
| | Fruits ... ... ... | ..... | ..... | ..... | 16 | ..... | ..... | ..... | ..... | ..... | 16 |
| | India-rubber *mahál* ... | ..... | ..... | ..... | 310 | ..... | ..... | ..... | ..... | ..... | 310 |
| | Cossia (cinnamon) „ ... | ..... | ..... | ..... | 62 | ..... | ..... | ..... | ..... | ..... | 62 |
| | Total ... ... ... | ..... | ..... | ..... | 397 | ..... | 31 | ..... | ..... | ..... | 428 |
| Gáro Hills ... | Foreign *gurkati* permits (No.) ... | ..... | ..... | 5,273 | 10,546 | ..... | ..... | 36 | 72 | 5,309 | 10,618 |
| | Gáro „ „ („) ... | ..... | ..... | 1,809 | 1,809 | ..... | ..... | ..... | ..... | 1,809 | 1,809 |
| | Bamboos („) ... | 525 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 525 | 10 |
| | „ (bundles) ... ... | 30 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | 30 | 3 |
| | Grazing (No.) ... ... | ..... | ..... | 2,093 | 1,032 | ..... | ..... | ..... | ..... | 2,093 | 1,032 |
| | Thatching grass (c. ft.) ... | 2,845 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | 2,845 | 7 |
| | Canes (bundles) ... ... | ..... | ..... | 60 | 1 | ..... | ..... | ..... | ..... | 60 | 1 |
| | Total ... ... ... | ..... | 20 | ..... | 13,388 | ..... | ..... | ..... | 72 | ..... | 13,480 |
| | Total Unclassed Forests ... | ..... | 20 | ..... | 56,955 | ..... | 4,646 | ..... | 72 | ..... | 61,693 |
| | Grand total ... ... | ..... | 747 | ..... | 64,673 | ..... | 12,923 | ..... | 72 | ..... | 78,415 |

*Abstract of the Circle.*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Foreign *gurkati* permits (No.) ... | ..... | ..... | 5,273 | 10,546 | ..... | ..... | 36 | 72 | 5,309 | 10,618 |
| Gáro " " ( " ) ... | ..... | ..... | 1,809 | 1,809 | ..... | ..... | ..... | ..... | 1,809 | 1,809 |
| Bamboos ( " ) ... | 1,254 | 17 | 2,115,789 | 6,002 | 2,033,008 | 7,799 | ..... | ..... | 4,150,051 | 13,818 |
| " (bundles) ... ... | 30 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | 30 | 3 |
| Grazing (No.) ... ... | ..... | ..... | 11,922 | 5,630 | ..... | ..... | ..... | ..... | 11,922 | 5,630 |
| Canes (bundles) ... ... | ..... | ..... | 97,108 | 2,538 | 66,747 | 2,156 | ..... | ..... | 163,855 | 4,694 |
| Reeds (c. ft.)... ... | 60 | 2 | 49,735 | 1,548 | 45,944 | 1,435 | ..... | ..... | 95,739 | 2,985 |
| Thatching grass ( " )... ... | 18,105 | 50 | 2,318,249 | 5,801 | 604,350 | 1,510 | ..... | ..... | 2,940,704 | 7,361 |
| Murtha " (bundles) ... | ..... | ..... | 175 | 5 | ..... | ..... | ..... | ..... | 175 | 5 |
| Pathi (*dals*) ... ... | ..... | ..... | 97,175 | 62 | 37,125 | 23 | ..... | ..... | 134,300 | 85 |
| India-rubber (seers) ... ... | ..... | ..... | 6 | 6 | ..... | ..... | ..... | ..... | 6 | 6 |
| Agar (baskets) ... ... | ..... | ..... | 12 | 18 | ..... | ..... | ..... | ..... | 12 | 18 |
| Elephant tusk (No.) ... | ..... | ..... | 1 | 1 | ..... | ..... | ..... | ..... | 1 | 1 |
| Cutch (maunds) ... | 51 | 675 | ..... | ..... | ..... | ..... | ..... | ..... | 51 | 675 |
| Fruits ... ... | ..... | ..... | ..... | 18 | ..... | ..... | ..... | ..... | ..... | 18 |
| Trees for rearing silk-worms (No.)... | ..... | ..... | 351 | 54 | ..... | ..... | ..... | ..... | 351 | 54 |
| India-rubber *mahál* ... ... | ..... | ..... | ..... | 25,585 | ..... | ..... | ..... | ..... | ..... | 25,585 |
| Cane " ... ... | ..... | ..... | ..... | 3,048 | ..... | ..... | ..... | ..... | ..... | 3,048 |
| Lac " ... ... | ..... | ..... | ..... | 20 | ..... | ..... | ..... | ..... | ..... | 20 |
| Thatching grass " ... ... | ..... | ..... | ..... | 1,598 | ..... | ..... | ..... | ..... | ..... | 1,598 |
| Bilgrass (*Phrynium dichotomum*) *mahál.* | ..... | ..... | ..... | 110 | ..... | ..... | ..... | ..... | ..... | 110 |
| Murtha grass *mahál* ... | ..... | ..... | ..... | 12 | ..... | ..... | ..... | ..... | ..... | 12 |
| Udal (*Stercula vilosa*) " ... | ..... | ..... | ..... | 25 | ..... | ..... | ..... | ..... | ..... | 25 |
| Pipul (pepper) " ... | ..... | ..... | ..... | 175 | ..... | ..... | ..... | ..... | ..... | 175 |
| Cassia (cinnamon) " ... | ..... | ..... | ..... | 62 | ..... | ..... | ..... | ..... | ..... | 62 |
| Total ... ... ... | ..... | 747 | ..... | 64,673 | ..... | 12,923 | ..... | 72 | ..... | 78,415 |

FORM No. 56.

FOREST DEPARTMENT, ASSAM.—ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY, DURING THE YEAR 1891-92.

| Particulars | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Balance at commencement of the year.* | | | | |
| Cachar Division— | | | | |
| Drift logs (miscellaneous) ... | 51 | 1,321 | | |
| „ bamboos (No.) ... | 200 | ..... | | |
| | | | 51 | 1,321 |
| Goálpára Division— | | | | |
| Sâl logs ... ... | 700 | 11,147 | | |
| Gunserai logs ... ... | 2 | 35 | | |
| Dead wood (Sâl) ... ... | 3 | 25 | | |
| „ „ (Sisu) ... ... | 53 | 480 | | |
| | | | 758 | 11,687 |
| Kámrúp Division— | | | | |
| Sâl logs ... ... | 326 | 7,574 | | |
| „ planks ... ... | 86 | 171 | | |
| Drift wood (Sâl) ... ... | 6 | 60 | | |
| „ „ (miscellaneous) ... | 3 | 50 | | |
| | | | 421 | 7,855 |
| Darrang Division— | | | | |
| India-rubber (mds.)... ... | 0-8-1 | ..... | | |
| | | | ..... | ..... |
| Sibságar Division— | | | | |
| Firewood ... ... | ..... | 1,825 | | |
| | | | ..... | 1,825 |
| Gáro Hills Division— | | | | |
| Sâl logs ... ... | 228 | 4,789 | | |
| „ sleepers ... ... | 447 | 746 | | |
| „ beams ... ... | 61 | 422 | | |
| India-rubber (mds.) ... | 0-21-0 | ..... | | |
| | | | 736 | 5,957 |

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Removed by purchasers from depôts.* | | | | |
| Sâl logs ... ... | 961 | 12,551 | | |
| First class logs ... ... | 2 | 35 | | |
| Teak poles ... ... | 91 | 285 | | |
| Sâl sleepers, B. G.... ... | 31 | 108 | | |
| „ „ N. G.... ... | 13 | 17 | | |
| „ beams ... ... | 35 | 226 | | |
| „ scantlings ... ... | 8 | 8 | | |
| „ pieces ... ... | 162 | 237 | | |
| „ planks ... ... | 55 | 81 | | |
| Sam „ ... ... | 83 | 83 | | |
| „ scantlings ... ... | 2 | 2 | | |
| Pine rafters ... ... | 17 | 26 | | |
| „ posts ... ... | 12 | 12 | | |
| Drift and waif wood (Sâl) ... | 566 | 3,612 | | |
| „ „ „ „ (miscellaneous)... | 157 | 3,439 | | |
| „ „ „ boat (Sâl) ... | 1 | 30 | | |
| „ „ „ „ (miscellaneous). | 4 | 84 | | |
| Firewood ... ... | ..... | 6,470 | | |
| Drift firewood ... ... | ..... | 192 | | |
| „ bamboos (No.) ... | 200 | ..... | | |
| Thatching grass (c. ft.) ... | 500 | ..... | | |
| India-rubber (mds.) ... | 0-28-1 | ..... | | |
| Cutch ( „ ) ... | 46-0-0 | ..... | | |
| | | | 2,200 | 27,498 |
| *Made over to claimants.* | | | | |
| Drift logs ... ... | 11 | 296 | | |
| | | | 11 | 296 |

| | | | | |
|---|---|---|---|---|
| *Received from forests in depôts.* | | | | |
| Sâl logs ... ... ... | 4,072 | 57,307 | | |
| First class logs ... ... | 159 | 3,550 | | |
| Second „ „ ... ... | 12 | 156 | | |
| Sâl poles... ... ... | 15 | 12 | | |
| Teak „ ... ... ... | 176 | 457 | | |
| Miscellaneous poles ... ... | 144 | 97 | | |
| Sâl pieces ... ... | 59 | 127 | | |
| Dead posts (Sâl) ... ... | 42 | 118 | | |
| „ „ (miscellaneous) ... | 132 | 212 | | |
| Pine rafters ... ... | 33 | 60 | | |
| Jarul planks ... ... | 21 | 21 | | |
| Firewood ... ... | ..... | 5,310 | | |
| Bamboos (No.) ... | 1,084 | ..... | | |
| Reeds (c. ft.) ... | 60 | ..... | | |
| Thatching grass ( „ ) ... | 18,105 | ..... | | |
| Cutch (mds.) ... | 51 | ..... | 4,865 | 67,417 |
| *Received by confiscation and collection in depôts.* | | | | |
| Sâl logs... ... ... | 26 | 134 | | |
| Drift and waif wood (Sâl) ... | 584 | 3,604 | | |
| „ „ „ (miscellaneous) | 177 | 4,116 | | |
| „ boat (Sâl) ... ... | 1 | 30 | | |
| „ „ (miscellaneous) ... | 4 | 84 | | |
| „ firewood ... ... | ..... | 192 | | |
| „ bamboos (No.) ... .. | 200 | ..... | 792 | 8,160 |
| *Received by remeasurement in depôts.* | | | | |
| Sâl logs ... ... .. | ..... | 281 | | |
| Drift wood (Sâl) ... ... | ..... | 4 | ..... | 285 |
| *Received by conversion in depôts.* | | | | |
| Sâl logs ... ... ... | 1,071 | 11,782 | | |
| „ posts... ... ... | 22 | 74 | | |
| „ beams ... ... | 9 | 19 | | |
| „ planks ... ... | 104 | 162 | | |
| „ scantlings ... ... | 83 | 83 | | |
| „ wall plates ... ... | 54 | 81 | | |
| „ pieces ... ... | 103 | 110 | | |
| Sam planks ... ... | 244 | 241 | | |
| „ scantlings ... ... | 21 | 21 | 1,711 | 12,573 |

| | | | | |
|---|---|---|---|---|
| *Given away for experimental purposes.* | | | | |
| Dead wood (Sisu)... ... | 53 | 480 | 53 | 480 |
| *Reduced in remeasurement.* | | | | |
| Sâl logs ... ... | ..... | 7,027 | ..... | 7,027 |
| *Lost or used by the Department.* | | | | |
| Sâl logs ... ... | 188 | 2,958 | | |
| First class „ ... ... | 26 | 684 | | |
| Second „ „ ... ... | 2 | 26 | | |
| Sâl poles ... ... | 15 | 12 | | |
| Teak poles ... ... | 85 | 172 | | |
| Miscellaneous poles ... | 144 | 97 | | |
| Drift wood (Sâl) ... ... | 22 | 44 | | |
| Dead posts ( „ ) ... ... | 31 | 42 | | |
| „ „ (miscellaneous) ... | 120 | 200 | | |
| Sâl sleepers, B. G. ... | 24 | 83 | | |
| „ „ N. G. ... | 5 | 7 | | |
| „ beams ... ... | 3 | 20 | | |
| „ planks ... ... | 86 | 171 | | |
| „ scantlings ... ... | 3 | 3 | | |
| Sam „ ... ... | 3 | 3 | | |
| „ planks ... ... | 8 | 8 | | |
| Bamboos (No.) ... ... | 529 | ..... | | |
| Reeds (c. ft.) ... ... | 60 | ..... | | |
| Thatching grass (c. ft.) ... | 600 | ..... | 765 | 4,530 |
| *Converted in depôts.* | | | | |
| Sâl logs ... ... | 498 | 12,311 | | |
| Sam „ ... ... | 4 | 262 | 502 | 12,573 |
| *Received from the forest and sold locally.* | | | | |
| Drift and waif wood (Sâl) ... | 11 | 105 | | |
| „ „ „ „ (miscellaneous) ... ... | 299 | 3,292 | 310 | 3,397 |
| *Balance at close of the year.* | | | | |
| Cachar Division— | | | | |
| Drift wood (miscellaneous) ... | 62 | 1,741 | | |
| „ bamboos (No.) ... | 200 | ..... | 62 | 1,741 |

FORM No. 56—*concluded.*

| Particulars. | Number or quantity | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Received from the forest and sold locally.* | | | | |
| Drift and waif wood (Sâl) ... | 11 | 105 | | |
| " " " " (miscellaneous) | 299 | 3,292 | | |
| | | | 310 | 3,397 |
| Grand total ... ... ... | ..... | ..... | 9,644 | 120,477 |

| Particulars. | Number or quantity | Cubic feet | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| Goâlpára Division— | | | | |
| Sâl logs ... ... | 3,437 | 46,024 | | |
| First class logs ... ... | 106 | 2,164 | | |
| Dead wood (Sâl) ... ... | 3 | 25 | | |
| | | | 3,546 | 48,213 |
| Kámrúp Division— | | | | |
| Sâl logs ... ... | 334 | 3,317 | | |
| " planks ... ... | 15 | 47 | | |
| Dead wood (Sâl) ... ... | 11 | 76 | | |
| Drift " ( " ) ... ... | 2 | 12 | | |
| " " (Sam) ... ... | 1 | 11 | | |
| Thatching grass (c. ft ) ... | 14,660 | ..... | | |
| | | | 363 | 3,463 |
| Darrang Division— | | | | |
| Cutch (mds.) ... ... | 5 | ..... | | |
| | | | ..... | ..... |
| Sibságar Division— | | | | |
| Firewood ... ... | ... ..... | 665 | | |
| | | | ..... | 665 |
| Khási and Jaintia Hills Division— | | | | |
| Pine rafters ... ... | 16 | 24 | | |
| | | | 16 | 24 |
| Gáro Hills Division— | | | | |
| Sâl logs ... ... | 1,005 | 8,826 | | |
| First class logs ... ... | 23 | 440 | | |
| Second " " ... ... | 10 | 130 | | |
| Sâl sleepers, B. G. ... ... | 15 | 52 | | |
| " " N G. ... ... | 359 | 479 | | |
| " beams ... ... | 32 | 195 | | |
| " posts ... ... | 22 | 74 | | |
| " planks ... ... | 34 | 34 | | |
| " scantlings ... ... | 72 | 72 | | |
| " wall plates ... ... | 54 | 81 | | |
| Sam scantlings ... ... | 16 | 16 | | |
| " planks ... ... | 153 | 150 | | |
| Jarul " ... ... | 21 | 21 | | |
| | | | 1,816 | 10,570 |
| Grand total ... .. | ..... | ..... ... | 9,644 | 120,477 |

## FORM No. 57.

FOREST DEPARTMENT, ASSAM.—ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPÔTS FOR THE YEAR 1891-92.

| Description of timber and other produce. | On hand at commencement of the year. | | | On hand at close of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|
| | Number. | C. ft. | Value. | Number. | C. ft. | Value. | In favour of the year. | Against the year. |
| | | | Rs. | | | Rs. | Rs. | Rs. |
| CACHÁR DIVISION. | | | | | | | | |
| Drift wood (miscellaneous). | 51 | 1,321 | 60 | 62 | 1,741 | 75 | 15 | ..... |
| Bamboos ... | 200 | ..... | 2 | 200 | ..... | 1 | ..... | 1 |
| Total ... ... | ..... | ..... | 62 | ..... | ..... | 76 | 15 | 1 |
| GOÁLPÁRA DIVISION. | | | | | | | | |
| Sâl logs ... | 700 | 11,147 | 9,688 | 3,437 | 46,024 | 34,518 | 24,830 | ..... |
| First-class logs ... | 55 | 515 | 275 | 106 | 2,164 | 1,623 | 1,348 | ..... |
| „ dead wood | 3 | 25 | 25 | 3 | 25 | 25 | ..... | ..... |
| Total ... ... | ..... | ..... | 9,988 | ..... | ..... | 36,166 | 26,178 | ..... |
| KÁMRÚP DIVISION. | | | | | | | | |
| Sâl logs ... | 326 | 7,574 | 4,000 | 334 | 3,317 | 1,752 | ..... | 2,248 |
| „ planks ... | ..... | ..... | ..... | 15 | 47 | 47 | 47 | ..... |
| Dead wood (Sâl) ... | ..... | ..... | ..... | 11 | 76 | 22 | 22 | ..... |
| Drift „ („) ... | 6 | 60 | 15 | 2 | 12 | 6 | ..... | 9 |
| „ „ (first-class). ... | 3 | 50 | 7 | 1 | 11 | 1 | ..... | 6 |
| Thatching grass (c. ft.) | ..... | ..... | ..... | 14,660 | ..... | 37 | 37 | ..... |
| Total ... ... | ..... | ..... | 4,022 | ..... | ..... | 1,865 | 106 | 2,263 |
| DARRANG DIVISION. | | | | | | | | |
| India-rubber (seers). | 8 | ..... | 8 | ..... | ..... | ..... | ..... | 8 |
| Cutch (mds.) ... | ..... | ..... | ..... | 5 | ..... | 136 | 136 | ..... |
| Total ... ... | ..... | ..... | 8 | ..... | ..... | 136 | 136 | 8 |
| SIBSÁGAR DIVISION. | | | | | | | | |
| Firewood ... | ..... | 1,825 | 91 | ..... | 665 | 33 | ..... | 58 |
| Total ... ... | ..... | ..... | 91 | ..... | ..... | 33 | ..... | 58 |
| KHÁSI AND JAINTIA HILLS DIVISION. | | | | | | | | |
| Pine rafters ... | ..... | ..... | ..... | 16 | 24 | 2 | 2 | ..... |
| Total ... ... | ..... | ..... | ..... | ..... | ..... | 2 | 2 | ..... |
| GÁRO HILLS DIVISION. | | | | | | | | |
| Sâl logs ... | 228 | 4,789 | 844 | 1,005 | 8,826 | 4,636 | 3,792 | ..... |
| First-class logs ... | ..... | ..... | ..... | 23 | 440 | 329 | 329 | ..... |
| Second-class „ ... | ..... | ..... | ..... | 10 | 130 | 97 | 97 | ..... |
| Sâl sleepers ... | 447 | 746 | 447 | 374 | 531 | 374 | .... | 73 |
| „ beams ... | 61 | 422 | 183 | 32 | 195 | 96 | ..... | 87 |
| „ posts ... | ..... | ..... | ..... | 22 | 74 | 66 | 66 | ..... |
| „ planks ... | ..... | ..... | ..... | 34 | 34 | 40 | 40 | ..... |
| „ scantlings ... | ..... | ..... | ..... | 72 | 72 | 90 | 90 | ..... |
| „ wall plates ... | ..... | ..... | ..... | 54 | 81 | 90 | 90 | ..... |
| Sam scantlings ... | ..... | ..... | ..... | 16 | 16 | 20 | 20 | ..... |
| „ planks ... | ..... | ..... | ..... | 153 | 150 | 190 | 190 | ..... |
| Jarul „ ... | ..... | ..... | ..... | 21 | 21 | 21 | 21 | ..... |
| India-rubber (seers). | 21 | ..... | 31 | ..... | ..... | ..... | ..... | 31 |
| Total ... ... | ..... | ..... | 1,505 | ..... | ..... | 6,049 | 4,735 | 191 |
| Grand total ... | ..... | ..... | 15,676 | ..... | ..... | 44,327 | 31,172 | 2,521 |

Net difference in favour of the year Rs. 28,651.

FORM No. 57—*continued.*

FOREST DEPARTMENT, ASSAM.—ABSTRACT SHOWING THE VALUE OF LIVE AND DEAD STOCK FOR THE YEAR 1891-92.

| Description of live and dead stock. | On hand at commencement of the year. | | On hand at close of the year. | | Difference in value. | |
|---|---|---|---|---|---|---|
| | Number or quantity. | Value. | Number or quantity. | Value. | In favour of the year. | Against the year. |
| | | Rs. | | Rs. | Rs. | Rs. |
| **DIRECTION DIVISION.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 7 | 47 | 7 | 47 | ..... | ..... |
| Tools ... ... ... | 21 | 61 | 23 | 62 | 1 | ..... |
| Office and rest-house furniture ... | 73 | 1,251 | 91 | 1,422 | 171 | ..... |
| Tent ... ... ... | 1 | 100 | 1 | 100 | ..... | ..... |
| Miscellaneous ... ... | ..... | 108 | 64 | 110 | 2 | ..... |
| *Live Stock.* | | | | | | |
| Elephants ... ... ... | ..... | ..... | 3 | 5,200 | 5,200 | ..... |
| Total ... ... ... | ..... | 1,567 | 189 | 6,941 | 5,374 | ..... |
| **WORKING PLANS DIVISION.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 421 | 1,291 | 370 | 1,268 | ..... | 23 |
| Tools ... ... ... | 248 | 249 | 287 | 256 | 7 | ..... |
| Office and rest-house furniture ... | 30 | 378 | 29 | 377 | ..... | 1 |
| Tent ... ... ... | 1 | 100 | 1 | 100 | ..... | ..... |
| Miscellaneous ... ... ... | ..... | 369 | ..... | 352 | ..... | 17 |
| *Live Stock.* | | | | | | |
| Elephants ... ... ... | 7 | 11,850 | 5 | 7,600 | ..... | 4,250 |
| Total ... ... ... | ..... | 14,237 | ..... | 9,953 | 7 | 4,291 |
| **CACHAR DIVISION.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 13 | 300 | 13 | 300 | ..... | ..... |
| Tools ... ... ... | 301 | 530 | 287 | 510 | ..... | 20 |
| Office and rest-house furniture ... | 124 | 1,170 | 115 | 1,153 | ..... | 17 |
| Tents ... ... ... | 2 | 60 | 2 | 60 | ..... | ..... |
| Miscellaneous ... .. ... | ..... | 240 | ..... | 154 | ..... | 86 |
| *Buildings.* | | | | | | |
| Divisional and office bungalows— | | | | | | |
| Revenue stations and inspection houses | 6 | 7,850 | 9 | 7,935 | 85 | ..... |
| Other houses... ... ... | 29 | 830 | 30 | 950 | 120 | ..... |
| *Live Stock.* | | | | | | |
| Elephant ... ... ... | 1 | 1,500 | 1 | 1,500 | ..... | ..... |
| Total ... ... ... | ..... | 12,480 | ..... | 12,562 | 205 | 123 |
| **SYLHET DIVISION.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 40 | 153 | 39 | 151 | ..... | 2 |
| Tools ... ... ... | 69 | 249 | 72 | 264 | 15 | ..... |
| Office and rest-house furniture ... | 65 | 1,096 | 66 | 1,121 | 25 | ..... |
| Miscellaneous ... ... ... | ..... | 232 | ..... | 317 | 85 | ..... |
| *Buildings.* | | | | | | |
| Office and rest-houses ... ... | 6 | 500 | 7 | 525 | 25 | ..... |
| Other houses ... ... ... | 18 | 325 | 21 | 405 | 80 | ..... |
| Total ... ... ... | ..... | 2,555 | ..... | 2,783 | 230 | 2 |

FORM No. 57—*continued.*

| Description of live and dead stock. | On hand at commencement of the year | | On hand at close of the year. | | Difference in value. | |
|---|---|---|---|---|---|---|
| | Number or quantity. | Value. | Number or quantity. | Value. | In favour of the year. | Against the year. |
| GOALPARA DIVISION. | | Rs. | | Rs. | Rs. | Rs. |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 31 | 125 | 29 | 107 | ..... | 18 |
| Machinery ... ... ... | 4 | 600 | 4 | 500 | ..... | 100 |
| Tools ... ... ... | 463 | 495 | 454 | 347 | ..... | 148 |
| Office and rest-house furniture ... | 103 | 992 | 100 | 892 | ..... | 100 |
| Miscellaneous ... ... ... | ..... | 1,136 | ..... | 1,355 | 219 | ..... |
| *Buildings.* | | | | | | |
| Dhubri bungalow ... ... | 1 | 8,000 | 1 | 8,000 | ..... | ..... |
| Other houses ... ... | 26 | 1,180 | 25 | 1,180 | ..... | ..... |
| *Live Stock.* | | | | | | |
| Elephants ... ... ... | 13 | 21,650 | 14 | 23,650 | 2,000 | ..... |
| Total ... ... ... | ..... | 34,178 | ..... | 36,031 | 2,219 | 366 |
| KAMRUP DIVISION. | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 41 | 117 | 41 | 117 | ..... | ..... |
| Tools ... ... ... | 682 | 1,579 | 765 | 1,797 | 218 | ..... |
| Office and rest-house furniture ... | 87 | 1,029 | 92 | 1,035 | 6 | ..... |
| Tent ... ... ... | 1 | 15 | 1 | 15 | ..... | ..... |
| Miscellaneous ... ... ... | ..... | 2,429 | ..... | 2,668 | 239 | ..... |
| *Buildings.* | | | | | | |
| Gauháti bungalow ... ... | 1 | 5,658 | 1 | 5,658 | ..... | ..... |
| Kulsi plantation bungalow ... ... | 1 | 3,000 | 1 | 3,000 | ..... | ..... |
| Other houses ... ... ... | 78 | 1,200 | 62 | 750 | ..... | 450 |
| *Live Stock.* | | | | | | |
| Elephants ... ... ... | 5 | 8,000 | 5 | 8,000 | ..... | ..... |
| Total ... ... ... | ..... | 23,027 | ..... | 23,040 | 463 | 450 |
| DARRANG DIVISION. | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 72 | 339 | 71 | 322 | ..... | 17 |
| Tools ... ... ... | 837 | 1,446 | 837 | 1,400 | ..... | 46 |
| Office and rest-house furniture ... | 153 | 1,183 | 153 | 1,133 | ..... | 50 |
| Miscellaneous ... ... | ..... | 482 | ..... | 457 | ..... | 25 |
| *Buildings.* | | | | | | |
| Plantation bungalow ... ... | 1 | 4,800 | 1 | 4,700 | ..... | 100 |
| Bhairabighat bungalow and inspection houses | 3 | 3,500 | 3 | 3,400 | ..... | 100 |
| Other houses ... ... ... | 19 | 1,200 | 19 | 1,100 | ..... | 100 |
| *Live Stock.* | | | | | | |
| Elephant ... ... ... | 1 | 1,500 | 1 | 1,500 | ..... | ..... |
| Total ... ... ... | ..... | 14,450 | ..... | 14,012 | ..... | 438 |

FORM No. 57—*continued.*

| Description of live and dead stock | On hand at commencement of the year | | On hand at close of the year | | Difference in value | |
|---|---|---|---|---|---|---|
| | Number or quantity. | Value | Number or quantity | Value. | In favour of the year | Against the year. |
| | | Rs. | | Rs | Rs. | Rs. |
| **NOWGONG DIVISION.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 17 | 129 | 17 | 129 | ..... | ..... |
| Tools ... ... ... | 234 | 285 | 240 | 307 | 22 | ..... |
| Office and rest-house furniture ... | 41 | 684 | 45 | 695 | 11 | ..... |
| Tent ... ... ... | 1 | 100 | 1 | 100 | ..... | ..... |
| Miscellaneous ... ... | ..... | 3 | ..... | 14 | 11 | ..... |
| *Buildings.* | | | | | | |
| Inspection houses ... ... | 2 | 150 | 2 | 245 | 95 | ..... |
| Other houses ... ... | 16 | 310 | 16 | 310 | ..... | ..... |
| *Live Stock.* | | | | | | |
| Elephant ... ... ... | 1 | 1,800 | 1 | 1,800 | ..... | ..... |
| Total ... ... ... | ..... | 3,461 | ..... | 3,600 | 139 | ..... |
| **SIBSÁGAR DIVISION.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 32 | 60 | 32 | 60 | ..... | ..... |
| Tools ... ... ... | 347 | 277 | 241 | 177 | ..... | 100 |
| Office and rest-house furniture ... | 138 | 1,170 | 130 | 1,198 | 28 | ..... |
| Tents ... ... ... | 3 | 105 | 3 | 105 | ..... | ..... |
| Miscellaneous ... ... ... | ..... | 580 | ..... | 510 | ..... | 70 |
| *Buildings.* | | | | | | |
| Sibságar bungalow ... ... | 1 | 5,356 | 1 | 5,356 | ..... | ..... |
| Golághát bungalow and inspection houses | 5 | 4,820 | 5 | 4,820 | ..... | ..... |
| Other houses ... ... ... | 27 | 730 | 26 | 705 | ..... | 25 |
| *Live Stock.* | | | | | | |
| Elephant ... ... ... | 1 | 1,200 | 1 | 1,200 | ..... | ..... |
| Total ... ... ... | ..... | 14,298 | ..... | 14,131 | 28 | 195 |
| **LAKHIMPUR DIVISION.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 33 | 678 | 32 | 671 | ..... | 7 |
| Tools ... ... ... | 134 | 439 | 86 | 349 | ..... | 90 |
| Office and rest-house furniture ... | 68 | 1,180 | 71 | 1,197 | 17 | ..... |
| Tents ... ... ... | 2 | 95 | 2 | 95 | ..... | ..... |
| Miscellaneous ... ... | ..... | 1,641 | ..... | 1,641 | ..... | ..... |
| *Buildings.* | | | | | | |
| Lakhimpur bungalow ... ... | 1 | 8,510 | 1 | 8,510 | ..... | ..... |
| Margherita ,, ... | 1 | 3,342 | 2 | 3,600 | 258 | ..... |
| Other houses ... ... ... | ..... | 2,626 | ..... | 2,626 | ..... | ..... |
| *Live Stock.* | | | | | | |
| Elephants ... ... ... | 2 | 3,000 | 1 | 1,600 | ..... | 1,400 |
| Total ... ... ... | ..... | 21,511 | ..... | 20,289 | 275 | 1,497 |

FORM No. 57—*concluded.*

| Description of live and dead stock. | On hand at commencement of the year | | On hand at close of the year. | | Difference in value. | |
|---|---|---|---|---|---|---|
| | Number or quantity. | Value. | Number or quantity | Value. | In favour of the year. | Against the year. |
| | | Rs. | | Rs. | Rs. | Rs. |
| **Khási and Jaintia Hills Division.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Office and rest house furniture .. | 1 | 30 | 1 | 30 | ..... | ..... |
| Miscellaneous ... ... ... | ..... | 120 | ..... | 124 | 4 | ..... |
| *Buildings.* | | | | | | |
| Small house ... ... ... | 1 | 100 | 4 | 250 | 150 | ..... |
| Total ... ... ... | ..... | 250 | ..... | 404 | 154 | ..... |
| **Gáro Hills Division.** | | | | | | |
| *Stores, Tools and Plant.* | | | | | | |
| Surveying and other instruments ... | 97 | 525 | 93 | 515 | ..... | 10 |
| Tools ... .. ... | 274 | 220 | 331 | 200 | ..... | 20 |
| Office and rest-house furniture ... | 47 | 1,200 | 49 | 1,160 | ..... | 40 |
| Miscellaneous ... ... | ..... | 387 | ..... | 310 | ..... | 77 |
| *Buildings.* | | | | | | |
| Tura bungalow ... ... ... | 1 | 5,437 | 1 | 5,437 | ..... | ..... |
| „ godown ... ... ... | 1 | 1,881 | 1 | 1,881 | ..... | ..... |
| Inspection and other houses... ... | 8 | 2,532 | 8 | 2,300 | ..... | 232 |
| *Live Stock.* | | | | | | |
| Elephant ... ... ... | 1 | 1,500 | 1 | 1,500 | ..... | ..... |
| Total ... ... ... | ..... | 13,682 | ..... | 13,303 | ..... | 379 |
| Grand total ... ... | ..... | 1,55,696 | ..... | 1,57,049 | 9,094 | 7,741 |

Net difference in favour of the year Rs. 1,353.

# FORM No. 58.

## FOREST DEPARTMENT, ASSAM.—SUMMARY OF REVENUE OF THE DIFFERENT DIVISIONS DURING 1891-92.

| Budget heads. | Direction. | Working Plans Division. | Cachar Division. | Sylhet Division. | Goálpára Division. | Kámrúp Division. | Darrang Division. | Nowgong Division. | Sibságar Division. | Lakhimpur Division. | Nága Hills Division. | Khási and Jaintia Hills Division. | Gáro Hills Division. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEIPTS. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| I.—Timber and other produce removed from the forests by Government agency— | | | | | | | | | | | | | | |
| a. Timber.. .. .. .. .. | ..... | ..... | ..... | ..... | 4,381 0 0 | 7,537 12 5 | ..... | ..... | ..... | ..... | ..... | ..... | 1,529 0 0 | 13,447 12 5 |
| b. Firewood and charcoal .. .. .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 372 14 0 | ..... | ..... | ..... | ..... | 372 14 0 |
| c. Bamboos .. .. .. .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| d. Sandal-wood .. .. .. .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| e. Grass and other minor produce .. .. | ..... | ..... | ..... | ..... | ..... | 539 6 6 | 8 0 0 | ..... | ..... | ..... | ..... | ..... | 32 8 0 | 579 14 6 |
| II.—Timber and other produce removed from the forests by consumers or purchasers .. .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 12,569 0 0 | 12,569 0 0 |
| a. Timber .. .. .. .. | ..... | ..... | 26,810 8 0 | 14,514 1 0 | 27,108 5 0 | 44,479 5 9 | 12,234 10 9 | 11,643 4 3 | 7,961 14 6 | 80,789 7 9 | ..... | 123 0 0 | 18,671 8 0 | 1,92,656 1 0 |
| b. Firewood and charcoal .. .. .. | ..... | ..... | 117 9 0 | 232 13 7 | 12 8 0 | 94 6 0 | 124 0 0 | 399 5 3 | 463 0 0 | 1,286 2 0 | ..... | 123 4 0 | ..... | 2,950 15 10 |
| c. Bamboos .. .. .. .. | ..... | ..... | 2,406 6 2 | 2,046 6 0 | 5 0 0 | 54 13 3 | 12 8 0 | 875 1 10 | 93 6 0 | 525 0 0 | ..... | ..... | ..... | 6,018 9 4 |
| d. Grazing and fodder grass .. .. | ..... | ..... | 21 14 0 | ..... | 10 12 0 | *205 0 0 | 442 12 0 | 736 0 0 | 1,654 0 0 | 1,464 8 0 | ..... | ..... | 1,938 4 0 | *5,573 2 0 |
| e. Other minor produce .. .. .. | ..... | ..... | 2,344 3 6 | 3,870 2 1 | 5,938 5 9 | 152 11 0 | 21,831 0 0 | 292 11 6 | 867 0 0 | 5,690 2 3 | 270 0 0 | 438 15 6 | ..... | 41,685 3 7 |
| III.—Drift and waif wood and confiscated forest produce | ..... | ..... | 612 15 6 | 541 2 0 | 1,249 9 0 | 154 5 0 | ..... | 230 9 9 | 348 2 3 | 141 15 0 | ..... | 4 13 0 | 256 14 0 | 3,540 5 6 |
| IV.—Revenue from forests not managed by Government— | | | | | | | | | | | | | | |
| a. Duty on foreign timber and other forest produce | ..... | ..... | 5,841 12 0 | ..... | ..... | ..... | ..... | ..... | 100 0 0 | 792 0 0 | ..... | ..... | ..... | 6,733 12 0 |
| b. Revenue from shared and private forests .. | ..... | ..... | ..... | ..... | ..... | 3,290 11 6 | ..... | ..... | ..... | ..... | ..... | 938 4 0 | 2,997 2 0 | 7,136 1 6 |
| V.—Miscellaneous— | | | | | | | | | | | | | | |
| a. Fines and forfeitures .. .. .. | ..... | ..... | 145 0 0 | 301 12 0 | ..... | 51 8 0 | 121 0 0 | 424 14 0 | 126 0 0 | 220 8 0 | ..... | ..... | 495 0 0 | 1,885 11 0 |
| b. Refunds .. .. .. .. | 2 10 8 | 210 0 0 | 100 0 0 | 2 0 0 | 0 8 0 | 0 3 0 | 4 12 0 | ..... | ..... | 0 8 0 | ..... | ..... | ..... | 420 9 8 |
| c. Other sources .. .. .. | 322 5 0 | 154 0 0 | 5,826 7 6 | 27,392 0 2 | 1,230 6 4 | *2,340 9 0 | 203 0 0 | 723 7 9 | 745 8 0 | 910 5 2 | ..... | 36 0 0 | 783 9 3 | *40,668 10 3 |
| Total Receipts .. .. .. .. | 324 15 8 | 464 0 0 | 44,236 11 9 | 49,901 5 11 | 39,936 6 1 | 58,810 11 5 | 35,001 10 9 | 15,325 6 4 | 12,639 12 9 | 41,920 8 2 | 270 0 0 | 1,553 4 6 | 36,362 15 3 | 3,36,125 10 7 |

* Rs. 205 transferred from V c to II d with reference to Comptroller and Auditor General (Forests) No. 658, dated the 13th July 1892.

| EXPENDITURE. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A.—CONSERVANCY AND WORKS. | | | | | | | | | | | | | | |
| I.—Timber and other produce removed from the forests by Government agency— | | | | | | | | | | | | | | |
| a. Timber .. .. .. .. | ..... | ..... | ..... | ..... | 3,656 7 9 | 1,234 6 6 | ..... | ..... | ..... | ..... | ..... | 10 10 0 | 2,239 3 8 | 7,140 11 11 |
| b. Firewood and charcoal .. .. .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 109 1 6 | ..... | ..... | ..... | ..... | 109 1 6 |
| c. Bamboos .. .. .. .. | ..... | ..... | ..... | ..... | ..... | 32 1 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 32 1 9 |
| d. Sandal-wood .. .. .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| e. Grass and other minor produce .. .. | ..... | ..... | ..... | ..... | ..... | 742 10 6 | 136 4 0 | ..... | ..... | ..... | ..... | 4 8 0 | ..... | 883 6 6 |
| II.—Timber and other produce removed from the forests by consumers or purchasers. | ..... | 919 4 0 | 261 4 2 | 3,969 8 4 | 2,278 3 8 | 794 5 0 | 287 10 7 | 313 16 11 | 492 0 7 | 3,091 14 6 | ..... | ..... | 2,983 11 2 | 15,390 13 11 |
| III.—Drift and waif wood and confiscated forest produce | ..... | ..... | 114 14 0 | 46 8 0 | ..... | 1 0 0 | ..... | 10 9 0 | 56 5 3 | 4 9 0 | ..... | ..... | ..... | 233 13 3 |
| IV.—Revenue from forests not managed by Government— | | | | | | | | | | | | | | |
| a. Duty on foreign timber and other forest produce | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| b. Revenue from shared and private forests .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 852 12 9 | 852 12 9 |
| V.—Rent of leased forests and payments to shareholders in forests managed by Government. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| VI.—Live stock, stores, tools and plant— | | | | | | | | | | | | | | |
| a. Purchase of cattle .. .. .. | 2,950 0 0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2,950 0 0 |
| b. Feed and keep of cattle .. .. .. | 472 5 0 | 1,205 4 3 | 362 2 2 | 109 11 6 | 3,858 6 11 | 1,589 12 11 | 408 11 3 | 401 15 4 | 363 1 7 | 820 6 9 | ..... | ..... | 433 14 2 | 10,025 11 10 |
| c. Purchase of stores, tools, and plant .. | 1,022 3 9 | 3 8 0 | 16 4 0 | 131 11 0 | 932 12 0 | 625 10 0 | 44 0 0 | 38 18 0 | 172 13 0 | 106 12 9 | ..... | ..... | 126 6 4 | 3,220 15 10 |
| VII.—Communications and buildings— | | | | | | | | | | | | | | |
| a. Roads and bridges .. .. .. | ..... | ..... | 815 10 6 | ..... | 33 4 0 | 1,012 14 3 | 1,513 6 2 | 24 8 0 | 452 6 0 | 187 3 0 | ..... | ..... | 1,084 2 7 | 4,823 6 7 |
| b. Buildings .. .. .. .. | 1 4 0 | ..... | 1,028 11 0 | 492 4 6 | 1,256 10 7 | 1,423 6 0 | 289 7 0 | 231 14 0 | 815 7 9 | 2,058 2 0 | ..... | 70 5 4 | 1,249 3 7 | 8,916 11 9 |
| c. Other works .. .. .. .. | ..... | ..... | 164 0 6 | ..... | 236 8 0 | ..... | 30 12 0 | ..... | ..... | 10 1 0 | ..... | ..... | ..... | 441 5 6 |
| VIII.—Demarcation, improvement, and extension of forests— | | | | | | | | | | | | | | |
| a. Demarcation .. .. .. .. | ..... | ..... | 442 11 6 | ..... | 309 13 6 | 600 8 3 | 302 14 0 | 188 10 0 | 555 4 0 | 841 14 0 | ..... | 179 6 0 | 653 4 10 | 4,074 6 1 |
| b. Compensation for land and rights .. .. | ..... | ..... | ..... | 35 0 0 | ..... | ..... | ..... | 135 0 0 | ..... | ..... | ..... | ..... | ..... | 170 0 0 |
| c. Surveys and working plans .. .. | 186 0 0 | 4,732 14 11 | 57 8 0 | 50 14 9 | 22,282 2 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 27,308 8 7 |
| d. Sowing and planting .. .. .. | ..... | ..... | 3 12 0 | ..... | 21 12 0 | 561 15 7 | 4,897 13 2 | 18 6 0 | 239 2 0 | 21 4 0 | ..... | 3 0 0 | 220 8 8 | 5,987 9 5 |
| e. Protection from fire .. .. .. | ..... | ..... | ..... | ..... | 11,973 11 7 | 5,247 13 0 | 553 7 6 | 835 5 10 | ..... | ..... | ..... | 1,300 15 4 | 2,231 11 7 | 22,962 0 10 |
| f. Other works .. .. .. .. | 716 12 0 | ..... | 500 10 8 | 2,045 8 11 | 1,979 3 6 | 2,436 7 5 | 111 4 0 | 1,105 5 0 | 1,598 0 0 | 193 4 0 | ..... | 678 15 10 | 1,458 14 8 | 12,821 2 0 |
| IX.—Miscellaneous— | | | | | | | | | | | | | | |
| a. Refunds .. .. .. .. | ..... | ..... | 1 11 6 | 35 0 0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 252 8 0 | ..... | 289 3 6 |
| b. Law charges .. .. .. .. | ..... | ..... | 120 0 0 | 122 1 0 | ..... | ..... | 10 0 0 | 110 0 0 | 305 4 0 | 246 1 6 | ..... | ..... | ..... | 913 6 6 |
| c. Other charges .. .. .. | 83 7 0 | 290 12 1 | 232 6 0 | 77 4 9 | 317 7 0 | 667 14 9 | 244 1 0 | 37 5 0 | 153 15 9 | 281 14 6 | ..... | 7 4 0 | 544 3 8 | 2,937 15 8 |
| Total, A—Conservancy and Works .. .. | 5,440 15 9 | 7,151 11 3 | 3,821 10 0 | 7,114 8 9 | 49,136 7 5 | 16,970 13 11 | 8,829 10 9 | 3,452 0 1 | 5,310 13 5 | 7,863 7 0 | Nil | 2,507 8 6 | 14,097 1 5 | 1,31,686 12 3 |

## FORM No. 58—*concluded.*

| Budget heads. | Direction | Working Plans Division. | Cachar Division. | Sylhet Division. | Goálpára Division | Kámrúp Division. | Darrang Division. | Nowgong Division. | Sibságar Division. | Lakhimpur Division. | Nága Hills Division. | Khasi and Jaintia Hills Division. | Garo Hills Division | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs. a. p. | | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| Brought forward, Total A.—Conservancy and Works .. | 5,440 15 9 | 7,151 11 3 | 3,621 10 0 | 7,114 8 9 | 49,136 7 5 | 16,970 13 11 | 8,829 10 9 | 3,462 0 1 | 5,310 13 5 | 7,863 7 0 | *Nil* | 2,507 8 6 | 14,097 1 5 | 1,31,696 12 3 |
| B.—ESTABLISHMENT. | | | | | | | | | | | | | | |
| I.—Salaries— | | | | | | | | | | | | | | |
| a. Conservators .. .. .. .. | 14,984 14 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 14,984 14 6 |
| b. Superior officers ... .. . | 1,900 0 0 | 4,438 11 4 | 6,340 0 0 | 2,373 5 3 | 4,129 3 0 | 7,346 12 5 | 6,809 0 0 | 2,270 2 1 | 7,330 0 0 | 1,980 0 0 | ..... | ..... | 4,397 0 0 | 49,325 2 1 |
| c. Subordinate forest and depôt establishments .. | 1,252 9 3 | 480 0 0 | 4,256 7 3 | 555 0 0 | 3,217 11 3 | 3,797 7 5 | 2,948 15 8 | 1,064 6 0 | 2,931 5 3 | 3,998 7 6 | ..... | 984 0 0 | 3,075 12 4 | 28,884 1 11 |
| d. Office establishments .. . . | 4,519 10 8 | 556 0 0 | 1,067 8 0 | 730 15 6 | 1,008 0 0 | 1,260 0 0 | 824 8 0 | 697 10 3 | 1,028 7 9 | 961 11 9 | ..... | ..... | 1,199 0 6 | 13,793 8 5 |
| e. Deputation and special allowances .. . | 55 7 3 | 357 4 3 | ..... | ..... | 677 13 7 | ..... | 376 15 10 | 386 10 8 | 41 9 0 | 500 0 0 | ..... | ... .. | 1,200 0 0 | 3,596 12 7 |
| II.—Travelling allowances— | | | | | | | | | | | | | | |
| a. Conservators .. .. . .. | 1,381 12 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ... .. | ..... | ..... | ..... | ..... | 1,381 12 8 |
| b. Superior officers . .. .. | 900 12 0 | 1,530 14 1 | 509 0 0 | 529 8 0 | 714 8 0 | 2,667 6 6 | 1,947 1 9 | 834 1 4 | 1,760 9 0 | 766 12 3 | ..... | ..... | 1,468 10 0 | 13,630 2 11 |
| c. Subordinate forest and depôt establishments .. | 288 6 8 | 292 6 0 | 579 2 6 | 264 8 0 | 390 6 0 | 523 0 0 | 634 8 0 | 219 6 0 | 421 3 0 | 796 7 0 | ..... | ..... | 301 15 10 | 4,801 4 10 |
| d. Office establishments .. .. .. | 16 2 0 | 251 4 0 | ..... | ..... | ..... | ..... | 41 10 0 | 34 11 0 | 3 4 0 | 16 0 0 | ..... | ..... | 6 8 0 | 369 7 0 |
| III.—Contingencies— | | | | | | | | | | | | | | |
| a. Stationery .. .. .. .. | 11 4 0 | 3 8 0 | 0 1 6 | ..... | ..... | ..... | ..... | ..... | 1 8 3 | ..... | ..... | ..... | 8 13 0 | 25 2 9 |
| b. Carriage of tents and records .. .. | 89 3 3 | 21 0 0 | 23 5 4 | ..... | 2 0 0 | ..... | 1 0 0 | 2 8 0 | ..... | ..... | ..... | ..... | 3 12 0 | 142 12 7 |
| c. Rents, rates, and taxes .. .. .. | 30 0 0 | 330 0 0 | 50 4 0 | 0 15 0 | 36 0 0 | 126 6 0 | ..... | ..... | 29 0 0 | 46 6 0 | ..... | ..... | .... | 648 15 0 |
| d. Pay of police guards .. .. .. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| e. Official postage .. . .. | 319 5 0 | 59 10 0 | 120 5 6 | 288 10 0 | 55 11 0 | 149 7 0 | 122 10 0 | 87 15 6 | 149 4 0 | 162 6 0 | ..... | ..... | 195 12 6 | 1,712 0 6 |
| f. Sundries .. .. .. .. | 350 7 1 | 188 7 2 | 361 7 8 | 160 0 8 | 426 4 10 | 315 10 3 | 161 7 4 | 140 13 7 | 226 13 2 | 200 4 9 | ..... | 12 7 6 | 299 11 4 | 2,862 12 4 |
| Total B.—Establishments .. .. .. | 26,008 14 2 | 8,509 0 10 | 13,229 9 9 | 4,852 14 5 | 10,667 9 8 | 16,356 1 7 | 13,859 12 7 | 5,830 4 5 | 13,922 12 5 | 9,407 7 3 | *Nil* | 996 7 6 | 12,156 15 6 | 1,35,827 14 1 |
| Grand total of Expenditure.. .. .. | 31,449 13 11 | 15,660 12 1 | 17,051 3 9 | 11,967 7 2 | 59,804 1 1 | 33,256 15 6 | 22,689 7 4 | 9,292 4 6 | 19,233 9 10 | 17,270 14 3 | *Nil* | 3,504 0 0 | 26,254 0 11 | 2,67,524 10 4 |

J. BRIDGENELL,

*Chief Superintendent (Forests).*

## FORM No. 59.

### Forest Department, Assam.—Account Current for the year 1891-92.

*Dr.*

| | Rs a p | Rs a p |
|---|---|---|
| To Cash Balance .. . | ..... | 1,470 7 7 |
| „ VIII —Assessed Taxes— | | |
| „ Income tax—Deductions from salaries . | ..... | 1,960 0 9 |
| „ Revenue as per Annual Summary, Form No 58 .. | ..... | 3,36,128 10 7 |
| „ Service Funds— | | |
| Civil Fund—Ordinary, Bengal . | .. ..... | |
| „ Additional, Bengal. | ..... | |
| Military Fund, Bengal | ..... | |
| „ „ Madras . | ..... | |
| „ Orphan Fund, Bengal .. | ..... | |
| * Uncovenanted Service Family Pension Fund, Bengal | 592 12 11 | |
| General Family Pension Fund | ..... | |
| *Hindu Family Annuity Fund .. | ..... | |
| | | 592 12 11 |
| „ Deposits . | ..... | |
| „ Forest Cash Remittances—Local— | | |
| Forest cheques drawn .. | 2,47,338 7 2 | |
| Inter-Divisional Transfers .. | 2,560 0 0 | |
| | | 2,49,898 7 2 |
| „ Advances recoverable . | ..... | 1,43,909 12 2* |
| „ Suspense .. .. .. | ..... | 228 5 6 |
| „ Account Current (other Governments)— | | |
| Remittances from Government of India .. .. .. | 27,755 7 11 | |
| Remittances from Government of Punjab .. | 347 13 1 | |
| Remittances from Government of Bengal .. . | 1,952 13 2 | |
| „ Inter-Departmental Transfers— | | 30,036 2 2 |
| Public Works Department (Ordinary Branch) .. .. | 12 7 4 | |
| Military Department, Bengal . | 10 1 0 | |
| Civil Department— | | |
| Jail .. . | ..... | |
| Mathematical Instrument Department .. | 844 14 0 | |
| Miscellaneous . | 1,329 1 7 | |
| Survey .. | 60 0 0 | 2,256 7 11 |
| Total .. | | 7,66,471 2 9 |

*Cr.*

| | Rs a p. | Rs. a. p. |
|---|---|---|
| By Expenditure as per Annual Summary Form No. 58 .. . | ..... | 2,67,524 10 4 |
| „ Deposits .. . . | ..... | |
| „ Forest Cash Remittances, Local— | | |
| Remittances to Treasuries | 3,33,482 10 5 | |
| Inter-Divisional Transfers .. | 2,564 0 0 | |
| | | 3,36,046 10 5 |
| „ Advances Recoverable .. | ..... | 1,43,906 7 8* |
| „ Suspense .. | ..... | 233 1 6 |
| „ Account Current (other Governments) | | |
| Remittances to the Government of India .. | 12,706 15 3 | |
| Remittances to the Government of Punjab .. | 3 4 1 | |
| | | 12,710 5 4 |
| „ Inter-Departmental Transfers— | | |
| Public Works Department, State Railway | 7,428 2 5 | |
| Public Works Department, Ordinary Branch . | 4,765 3 0 | |
| Military Department, Bengal . | 12 8 0 | |
| Civil Department— | | |
| Jail .. .. | 16 14 0 | |
| Police . . | 130 8 0 | |
| Miscellaneous .. | 43 13 4 | |
| Mathematical Instrument Department .. | 17 0 0 | |
| | | 12,411 0 9 |
| „ Cash Balance .. | ..... | 2,339 0 9 |
| Total .. | | 7,66,471 2 9 |

* *Vide* Comptroller and Auditor General's letter No. 586, dated 1st July 1892.

J. BRIDGENELL,

*Chief Superintendent (Forests).*

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## FORM No. 60.

### Forest Department, Assam.—Revenue received and Outstandings on account of Revenue during 1891-92.

| Division. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realised during year. | Balance due to the department at end of year. |
|---|---|---|---|---|---|---|
| | | Rs. a. p. | Rs. a. p. | Rs. a. p. | Rs a. p. | Rs. a. p. |
| Direction ... | Price of timber and other produce ... | ..... | 324 15 8 | 324 15 8 | 324 15 8 | ..... ... |
| Working Plans ... | „ | ..... | 464 0 0 | 464 0 0 | 464 0 0 | ..... ..... |
| Cachar ... | „ | 3,931 3 0 | 43,663 13 0 | 47,595 0 0 | 44,226 11 9 | 3,368 4 3 |
| Sylhet ... | „ | ..... | 49,201 5 11 | 49,201 5 11 | 49,201 5 11 | ..... |
| Goálpára ... | „ | 14,864 0 0 | 43,230 14 1 | 58,094 14 1 | 39,936 6 1 | 18,158 8 0 |
| Kámrúp ... | „ | 17,317 0 0 | 60,037 11 5 | 77,354 11 5 | 58,810 11 5 | 18,544 0 0 |
| Darrang ... | „ | ..... | 35,350 8 2 | 35,350 8 2 | 35,001 10 9 | 348 13 5 |
| Nowgong ... | „ | 10 8 0 | 15,630 14 4 | 15,641 6 4 | 15,325 6 4 | 316 0 0 |
| Sibságar ... | „ | 4 0 0 | 12,626 12 9 | 12,630 12 9 | 12,630 12 9 | ..... |
| Lakhimpur ... | „ | 15 0 0 | 42,408 1 11 | 42,423 1 11 | 41,920 8 2 | 502 9 9 |
| Nága Hills ... | „ | ..... | 270 0 0 | 270 0 0 | 270 0 0 | ..... |
| Khási and Jaintia Hills ... | „ | ..... | 1,653 4 6 | 1,653 4 6 | 1,653 4 6 | ..... |
| Gáro Hills ... | „ | 8,919 14 3 | 34,096 13 3 | 43,016 11 6 | 36,362 13 3 | 6,653 14 3 |
| | Total ... | 45,061 9 3 | 3,38,959 3 0 | 3,84,020 12 3 | 3,36,128 10 7 | 47,892 1 8 |

N

## FORM No. 61.

### Forest Department, Assam.— Outstandings and Liabilities on account of Contractors and Disbursers for 1891-92.

| Division | Department debtor. | | | Department creditor. | | | Balance due. | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year | At commencement of year | Payments made during year. | At close of year. | To department (outstandings) | By department (liabilities). | |
| | Rs. a. p. | Rs. a. p | Rs. a p | Rs a p. | Rs. a. p. | Rs. a. p. | Rs a. p. | Rs. a. p. | |
| Direction | .... | 5,200 0 0 | 5,200 0 0 | 140 0 0 | 5,215 0 0 | 5,355 0 0 | 155 0 0 | ... | |
| Working Plans | .... | 4,277 2 9 | 4,277 2 9 | 620 6 3 | 3,829 13 4 | 4,450 3 7 | 188 0 10 | ... | |
| Cachar | . | 13,113 11 10 | 13,113 11 10 | 843 1 5 | 12,213 13 2 | 13,056 14 6 | 453 2 8 | . .. | |
| Sylhet | .. | 33,416 10 7 | 33,416 10 7 | 1,905 3 6 | 35,520 5 8 | 37,425 9 2 | 2,408 14 7 | .... | |
| Goálpára | .. | 20,115 15 10 | 20,115 15 10 | 696 14 4 | 19,838 5 0 | 20,535 8 4 | 419 3 6 | .. | |
| Kámrúp | .. | 15,922 0 5 | 15,922 0 5 | 593 13 8 | 16,972 4 7 | 17,566 2 3 | 3,643 1 10 | . .. | |
| Darrang | .. | 3,558 10 10 | 3,558 10 10 | 336 4 9 | 4,115 5 3 | 4,451 10 0 | 892 15 2 | . .. | |
| Nowgong | .. | 8,477 14 3 | 8,477 14 3 | 696 5 5 | 8,439 1 3 | 9,135 6 8 | 657 8 5 | .. | |
| Sibságar | .. | 12,084 9 7 | 12,157 3 9 | 334 7 9 | 13,226 2 11 | 13,560 10 8 | 403 6 11 | .. | |
| Lakhimpur | .. | 72 10 2 | .... . | .... . | ..... | ..... | ..... | .... | |
| Nága Hills | .. | .... | ..... | ..... | ..... | ..... | ..... | . .. | |
| Khási " | .. | .... | 21,933 13 6 | 21,933 13 6 | 3,631 5 11 | 20,049 4 5 | 23,680 10 4 | 1,746 12 10* | .... |
| Gáro " | .. | .... | 4,808 2 7 | 4,808 2 7 | 1,309 1 1 | 4,377 0 0 | 5,686 1 1 | 877 14 6 | . |
| Total | .. | 72 10 2 | 1,43,909 12 2 | 1,43,982 6 4 | 10,616 15 11 | 1,45,206 7 8 | 1,55,826 7 7 | 11,841 1 8 | ... |

* *Vide* Comptroller and Auditor General's letter No. 586, dated the 1st July 1892.

J. BRIDGENELL,

*Chief Superintendent (Forests).*

## FORM No. 62.

### Forest Department, Assam.—Financial Results of the year 1891-92.

| Division | Timber and other produce removed from the forests by Government agency | | Other revenue. | | Formation, protection, and improvement of forests. | Total | |
|---|---|---|---|---|---|---|---|
| | Receipts. | Charges | Receipts. | Charges. | Charges. | Receipts. | Charges. |
| | Rs. | Rs | Rs. | Rs | Rs. | Rs. | Rs. |
| Direction ... ... | ..... | ..... | 325 | 14,201 | 17,249 | 325 | 31,450 |
| Working Plans ... ... | ..... | .... .... | 464 | 5,767 | 9,894 | 464 | 15,661 |
| Cachar ... ... ... | 612 | 115 | 43,615 | 7,324 | 9,612 | 44,227 | 17,051 |
| Sylhet ... ... ... | 541 | 46 | 48,660 | 6,690 | 5,231 | 49,201 | 11,967 |
| Goálpára ... ... | 5,631 | 3,656 | 34,305 | 9,128 | 47,020 | 39,936 | 59,804 |
| Kámrúp ... ... | 8,231 | 2,011 | 50,580 | 10,209 | 21,137 | 58,811 | 33,357 |
| Darrang ... ... | 8 | 136 | 34,994 | 7,585 | 14,969 | 35,002 | 22,690 |
| Nowgong ... ... | 231 | 11 | 15,094 | 3,486 | 5,785 | 15,325 | 9,282 |
| Sibságar ... ... | 621 | 165 | 12,010 | 8,047 | 11,022 | 12,631 | 19,234 |
| Lakhimpur ... ... | 142 | 5 | 41,779 | 8,556 | 8,710 | 41,921 | 17,271 |
| Nága Hills ... ... | ..... | ..... | 270 | ..... | ..... | 270 | 3..... |
| Khási and Jaintia Hills ... | 5 | 15 | 1,648 | 858 | 2,631 | 1,653 | 3,504 |
| Gáro Hills ... ... | 1,819 | 2,239 | 34,544 | 10,600 | 13,415 | 36,363 | 26,254 |
| Total ... ... ... | 17,841 | 8,399 | 3,18,288 | 92,451 | 1,66,675 | 3,36,129 | 2,67,525 |

J. McKEE,

*Offg. Conservator of Forests, Assam.*

# Appendix I.

*Register of Reserved Forests in the Province of Assam during 1891-92.*

| Date of entry. | Name of reserve. | Civil district and subdivision of district. | Number and date of notification sanctioning the reserve. | Area in acres. | Boundaries. | Statement of rights. | Remarks. |
|---|---|---|---|---|---|---|---|
| 30th July 1891. | Addition to the Suang reserve. | District Nowgong, Duars Solona and Bamuni. | No. 2883R., dated the 30th July 1891. | 4,688 | *North.*—The foot of the northern face of the Mikir Hills from point A to point B on the boundary of the old Suang reserve, thence along this boundary to point C, thence a survey line in an easterly direction to point D at the junction of the Thirubungsa hill stream with the Chapanalla river as shown on the map.<br>*East and South.*—The Chapanalla river from point D to point E at its junction with the Saru Chapanalla river, thence the latter to point F at its source as marked on the map.<br>*West.*—Another small hill stream from its source at point F to its junction with the Tholajuri at point G, thence the Tholajuri to point A, as shown on the map. | | |
| 24th February 1892 | Second addition to the Barak reserve. | District Cachar, Bhuban Hill. | No. 633R., dated the 24th February 1892. | 1,110 | *North.*—Barak river and Bhuban khal.<br>*East.*—Barak river.<br>*South and West.*—Barak reserve. | | |
| 5th March 1892. | Riatkhwan reserve. | District Khási and Jaintia Hills, sadr. | No. 806R., dated the 5th March 1892. | 967 | *North.*—The Shillong Umiam cart-road from point C to where it meets the bridle-path, thence a survey line to point D on the Umiam river as shown on the map.<br>*East.*—A survey line from point C to point E as shown on the map and thence along the bridle-path to point A as shown on the map.<br>*South.*—From point A to B as shown on the map.<br>*West.*—The Umiam river from point B to point C as shown on the map. | | |

# Appendix II.

*Statement showing the clearing of boundary lines and repairing of boundary mounds and the inspection done by the Divisional Officer in each Forest Division in 1891-92.*

| Divisions. | Total length of artificial boundaries and demarcated natural boundaries. | Length of artificial boundaries and demarcated natural boundaries cleared in 1891-92. | Total number of boundary mounds. | Number of boundary mounds repaired in 1891-92. | Length of artificial boundaries and demarcated natural boundaries inspected by the Divisional Officer. | Average cost per running mile of boundary work. | |
|---|---|---|---|---|---|---|---|
| | | | | | | 1891-92. | 1890-91. |
| | Miles. | Miles. | | | Miles. | Rs. a. p. | Rs. a. p. |
| Cachar ... ... | 70 | 68 | 650 | 650 | 54 | 6 8 2 | 8 2 7 |
| Goálpára ... ... | 108 | 108 | 425 | 425 | 108 | 2 13 10 | 2 1 6 |
| Kámrúp ... ... | 380 | 380 | 1,760 | 1,760 | 65 | 1 9 3 | 2 2 0 |
| Darrang ... ... | 33 | 33 | 137 | 137 | 13 | 9 2 10 | 2 5 5 |
| Nowgong ... ... | 124 | 123 | 1,062 | 1,034 | 105 | 1 8 6 | 1 15 4 |
| Sibságar ... ... | 135 | 121 | 296 | 296 | 47 | 4 9 5 | 3 11 6 |
| Lakhimpur ... ... | 115 | 71 | 348 | 292 | 31 | 11 13 8 | 13 15 7 |
| Khási and Jaintia Hills ... | 27 | 27 | 92 | 81 | ..... | 6 10 3 | ..... |
| Gáro Hills ... ... | 172 | 172 | 315 | 315 | 150 | 3 12 9 | 2 15 2 |
| Total ... ... | 1,164 | 1,103 | 5,085 | 4,990 | 573 | 3 11 1 | 3 9 11 |

# Appendix III.

## KULSI PLANTATION MEMORANDUM.

*Countings and Measurements of Trees of the different species, details of Expenditure incurred, and Table showing the rainfall in 1891-92.*

### RUBBER PLANTATION.

### EASTERN BLOCK, 1873-77.

*Area 88 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Inches. |
|---|---|---|---|
| 100 | 49* | 4 | 9 |

* By mistake last year the average height of 100 rubber trees was entered as 53 instead of 47 feet.

The measurements of the largest and finest are—

| No. | Height. Feet. | Girth. Feet | Inches. |
|---|---|---|---|
| 1 | 61 | 4 | 8 |
| 2 | 61 | 7 | 3 |
| 3 | 64 | 9 | 9 |
| 4 | 63 | 3 | 9 |
| 5 | 64 | 7 | 7 |
| 6 | 59 | 4 | 0 |
| 7 | 62 | 6 | 8 |
| 8 | 62 | 3 | 2 |
| 9 | 62 | 4 | 9 |
| 10 | 64 | 5 | 4 |

This block was divided into four compartments, the result of countings in each compartment is as follows :

| Number of compartment. | Number alive. | Number of vacancies. | Total. |
|---|---|---|---|
| 1 | 397 | 12 | 409 |
| 2 | 734 | 9 | 743 |
| 3 | 839 | 6 | 845 |
| 4 | 444 | 10 | 454 |
| Total .. | 2,414 | 37 | 2,451 |

Fifty of the Tun or Poma trees in this block were also measured, and the average size of them is given below :

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Inches. |
|---|---|---|---|
| 50 | 53 | 1 | 4½ |

The measurements of the ten largest are—

| No. | Height. Feet. | Girth. Feet. | Inches. |
|---|---|---|---|
| 1 | 55 | 2 | 4 |
| 2 | 54 | 2 | 6 |
| 3 | 63 | 2 | 11 |
| 4 | 62 | 2 | 2½ |
| 5 | 58 | 2 | 1 |
| 6 | 48 | 1 | 9½ |
| 7 | 52 | 1 | 10¾ |
| 8 | 52 | 2 | 3¾ |
| 9 | 49 | 2 | 1¼ |
| 10 | 45 | 1 | 9¾ |

These trees were sown in 1878. There are 226 planted bamboo clumps in this block Expenditure was Rs. 39-4-3.

### WESTERN BLOCK.

COMPARTMENT, 1878.

*Area 13 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Inches. |
|---|---|---|---|
| 50 | 64 | 6 | 5 |

The following are amongst the finest and largest trees:

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 68 | 7 | 2 |
| 2 | 67 | 5 | 0 |
| *3 | 68 | 10 | 9 |
| 4 | 66 | 5 | 5 |
| 5 | 78 | 5 | 6 |
| 6 | 60 | 8 | 4 |
| 7 | 59 | 6 | 11 |
| 8 | 61 | 6 | 10 |
| 9 | 60 | 6 | 11 |
| 10 | 62 | 11 | 10 |

| Number alive. | Number of vacancies. | Total. |
|---|---|---|
| 415 | 9 | 424 |

In this compartment there are 130 bamboo clumps, of which 119 are Jati, 2 are Makal or Deo, and 9 Bhaluka.

Expenditure was Rs. 3-10.

COMPARTMENT, 1883.

*Area 25·45 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Average girth. Inches. |
|---|---|---|---|
| 50 | 46 | 2 | 9 |

The ten largest and finest trees measured as follows:

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 48 | 3 | 6 |
| 2 | 52 | 5 | 7 |
| 3 | 49 | 4 | 4 |
| 4 | 53 | 3 | 2 |
| 5 | 52 | 3 | 10 |
| 6 | 50 | 3 | 9 |
| 7 | 44 | 3 | 3 |
| 8 | 45 | 4 | 8 |
| 9 | 43 | 5 | 7 |
| 10 | 33 | 2 | 4 |

| Number alive. | Number of vacancies. | Total. |
|---|---|---|
| 1,143 | 23 | 1,166 |

There are 380 bamboo clumps in this compartment and 3 Ceara Rubber trees of an average height of 36 feet and girth of 1 foot 5 inches.

Expenditure was Rs. 25-5.

COMPARTMENT, 1884.

*Area 33·40 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Average girth. Inches. |
|---|---|---|---|
| 50 | 36 | 2 | 4 |

The measurements noted below are those of the finest trees in this compartment, *viz*:

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 38 | 3 | 9 |
| 2 | 33 | 2 | 11 |
| 3 | 39 | 2 | 6½ |
| 4 | 36 | 2 | 0 |
| 5 | 40 | 2 | 7 |
| 6 | 38 | 3 | 6 |
| 7 | 40 | 3 | 6 |
| 8 | 37 | 2 | 6 |
| 9 | 32 | 2 | 8 |
| 10 | 34 | 2 | 4 |

| Number alive. | Number of vacancies. | Total. |
|---|---|---|
| 1,832 | 51 | 1,883 |

There are 11 Ajhar seed beds, with an average length of 290 feet by 4 feet. The plants are averaging 21 feet in height and 6 inches in girth.

Expenditure was Rs. 70-15-9.

## TEAK PLANTATION.

### COMPARTMENT, 1872.

*Area 8·75 acres.*

| Number of dominant trees measured. | Average girth. Feet. | Inches. |
|---|---|---|
| 50 | 3 | 7 |

The following are amongst the finest and largest trees:

| No. | Height. Feet. | Girth. Feet. | Inches. |
|---|---|---|---|
| 1 | 69 | 3 | 11 |
| 2 | 79 | 2 | 8¾ |
| 3 | 82 | 3 | 4¾ |
| 4 | 81 | 3 | 1 |
| 5 | 85 | 3 | 0 |
| 6 | 85 | 3 | 11½ |
| 7 | 77 | 3 | 4¼ |
| 8 | 76 | 4 | 11 |
| 9 | 78 | 4 | 3 |
| 10 | 81 | 3 | 6¼ |

In this compartment there are now 75 *Pithecolobium saman* trees of an average height of 49 feet and girth of 2 feet.

Expenditure was Re. 1.

### COMPARTMENT, 1873.

*Area 33 acres.*

| Number of dominant trees measured. | Average girth. Feet. | Inches. |
|---|---|---|
| 50 | 2 | 6¾ |

Amongst the largest and finest are the following:

| No. | Height. Feet. | Girth. Feet. | Inches. |
|---|---|---|---|
| 1 | 82 | 3 | 4½ |
| 2 | 72 | 2 | 9½ |
| 3 | 81 | 2 | 9 |
| 4 | 74 | 2 | 5¼ |
| 5 | 72 | 2 | 8½ |
| 6 | 75 | 3 | 6¼ |
| 7 | 69 | 2 | 9½ |
| 8 | 78 | 2 | 10 |
| 9 | 77 | 2 | 9 |
| 10 | 76 | 2 | 9 |

There are also a number of *Pithecolobium saman* trees in this compartment of an average height of 52 feet and girth of 2 feet 2¼ inches.

Expenditure was annas 12.

### COMPARTMENT, 1874.

*Area 17·68 acres.*

| Number of dominant trees measured | Average girth. Feet. | Inches. |
|---|---|---|
| 50 | 3 | 1 |

The following are amongst the finest and largest trees:

| No | Height. Feet. | Girth. Feet. | Inches. |
|---|---|---|---|
| 1 | 74 | 3 | 10 |
| 2 | 79 | 3 | 6 |
| 3 | 78 | 3 | 5 |
| 4 | 75 | 3 | 3½ |
| 5 | 77 | 4 | 2 |
| 6 | 86 | 4 | 4 |
| 7 | 84 | 3 | 10 |
| 8 | 81 | 3 | 10 |
| 9 | 83 | 4 | 0 |
| 10 | 85 | 4 | 8¾ |

There are also two clumps of *Musa textilis*.

Expenditure was Re. 1.

### Compartment, 1875.

*Area 60·6 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Inches. |
|---|---|---|---|
| 50 | 83 | 2 | 9 |

The following are the finest and largest :

| No. | Height. Feet. | Girth. Feet. | Inches. |
|---|---|---|---|
| 1 | 86 | 3 | 11 |
| 2 | 88 | 3 | 10 |
| 3 | 85 | 4 | 1 |
| 4 | 83 | 5 | 2 |
| 5 | 91 | 3 | 10 |
| 6 | 96 | 3 | 11 |
| 7 | 89 | 4 | 2 |
| 8 | 84 | 3 | 9½ |
| 9 | 76 | 3 | 8 |
| 10 | 75 | 4 | 11 |

There are numerous Sam seedlings, also some Nahor and Ajhar plants.
Expenditure was Re. 1-8.

### Compartment, 1878.

*Area 20·90 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Inches. |
|---|---|---|---|
| 50 | 73 | 2 | 5½ |

The following are the finest and largest trees :

| No. | Height. Feet. | Girth. Feet. | Inches. |
|---|---|---|---|
| 1 | 77 | 2 | 11½ |
| 2 | 75 | 4 | 0 |
| 3 | 77 | 3 | 5½ |
| 4 | 73 | 2 | 7¼ |
| 5 | 80 | 2 | 9 |
| 6 | 73 | 2 | 5 |
| 7 | 70 | 2 | 10¼ |
| 8 | 71 | 2 | 7 |
| 9 | 72 | 2 | 5 |
| 10 | 71 | 2 | 4½ |

In this compartment there are also a number of Ajhar and Amari plants.
Expenditure was Rs. 3-14-6.

### Compartment, 1879.

*Area 10·0 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Inches. |
|---|---|---|---|
| 50 | 59½ | 1 | 7¾ |

The following ten trees are the finest and largest :

| No. | Height. Feet. | Girth. Feet. | Inches. |
|---|---|---|---|
| 1 | 55 | 1 | 9¼ |
| 2 | 60 | 2 | 2 |
| 3 | 62 | 1 | 10½ |
| 4 | 61 | 2 | 0½ |
| 5 | 63 | 2 | 2 |
| 6 | 59 | 2 | 3 |
| 7 | 58 | 2 | 2½ |
| 8 | 61 | 2 | 0½ |
| 9 | 56 | 2 | 2 |
| 10 | 58 | 1 | 11 |

Another fifty trees in this compartment gave the following measurements :

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Average girth. Inches. |
|---|---|---|---|
| 50 | 49 | 1 | 9⅓ |

The following are the finest and largest :

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 61 | 2 | 6 |
| 2 | 64 | 2 | 9 |
| 3 | 46 | 1 | 7¼ |
| 4 | 41 | 1 | 4½ |
| 5 | 46 | 1 | 8¼ |
| 6 | 47 | 1 | 5 |
| 7 | 51 | 1 | 6¼ |
| 8 | 47 | 1 | 7 |
| 9 | 47 | 1 | 4½ |
| 10 | 45 | 1 | 6 |

There is only one Ceara Rubber tree left alive of 69 feet in height and 1 foot in girth. Expenditure was Re. 1-8.

COMPARTMENT, 1881.

*Area 20 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Average girth. Inches. |
|---|---|---|---|
| 50 | 60 | 1 | 9 |

The following are the best and largest in this compartment :

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 61 | 1 | 11 |
| 2 | 62 | 2 | 2 |
| 3 | 58 | 1 | 10 |
| 4 | 60 | 1 | 10½ |
| 5 | 62 | 2 | 3¼ |
| 6 | 61 | 2 | 1½ |
| 7 | 67 | 2 | 9 |
| 8 | 56 | 2 | 6 |
| 9 | 59 | 2 | 6½ |
| 10 | 59 | 2 | 5 |

The following trees are also found in this compartment, *viz.* :—260 *Pithecolobium saman* trees of an average height of 57 feet and girth of 2 feet 11 inches, which were planted along both sides of the Hathigarh and Chanchalpara district road.

The Sisu trees measured as follows :

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 37 | 1 | 2 |
| 2 | 42 | 1 | 4 |
| 3 | 26 | 0 | 7¾ |
| 4 | 43 | 1 | 3 |
| 5 | 37 | 0 | 7 |
| 6 | 33 | 1 | 0 |
| 7 | 36 | 1 | 0 |
| 8 | 35 | 1 | 0 |
| 9 | 35 | 1 | 0 |
| 10 | 38 | 1 | 3 |

The Ajhar trees measured :

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 36 | 1 | 6 |
| 2 | 33 | 1 | 1 |
| 3 | 35 | 1 | 3¼ |
| 4 | 34 | 1 | 1 |
| 5 | 36 | 1 | 1½ |
| 6 | 29 | 1 | 1 |
| 7 | 36 | 1 | 6 |
| 8 | 38 | 1 | 2 |
| 9 | 37 | 1 | 2½ |
| 10 | 35 | 1 | 0 |

There are 79 Khair trees left alive, 10 of these measured as follows :

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 42 | 1 | 2 |
| 2 | 36 | 1 | 0 |
| 3 | 33 | 0 | 10 |
| 4 | 34 | 1 | 0 |
| 5 | 39 | 1 | 2 |
| 6 | 54 | 1 | 10 |
| 7 | 48 | 2 | 1 |
| 8 | 53 | 1 | 8 |
| 9 | 26 | 0 | 8 |
| 10 | 18 | 0 | 7 |

Besides the above, there are some Sonarn (*Cassia fistula*) and Sam (*Artocarpus chaplásha*) trees.

Expenditure was Re. 1.

## Sisu Plantation, 1873.

*Area 20 acres.*

| Number of dominant trees measured. | Average height. Feet. | Average girth. Feet. | Average girth. Inches. |
|---|---|---|---|
| 50 | 54 | 2 | 0 |

The following 10 trees are the best :

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 53 | 2 | 3 |
| 2 | 52 | 2 | 5 |
| 3 | 60 | 2 | 7 |
| 4 | 60 | 2 | 10 |
| 5 | 61 | 2 | 11¾ |
| 6 | 54 | 2 | 4½ |
| 7 | 55 | 2 | 8 |
| 8 | 50 | 3 | 0 |
| 9 | 54 | 2 | 5½ |
| 10 | 51 | 2 | 7 |

Fifty Poma trees in this plantation were also measured :

| Number of dominant trees measured. | Average height. Feet | Average girth. Feet. | Average girth. Inches. |
|---|---|---|---|
| 50 | 59 | 3 | 3 |

Amongst the best are the following :

| No. | Height. Feet. | Girth. Feet. | Girth. Inches. |
|---|---|---|---|
| 1 | 58 | 3 | 10 |
| 2 | 62 | 3 | 11 |
| 3 | 59 | 3 | 2 |
| 4 | 57 | 2 | 4¼ |
| 5 | 60 | 2 | 9¼ |
| 6 | 62 | 3 | 10 |
| 7 | 61 | 2 | 11 |
| 8 | 60 | 2 | 11½ |
| 9 | 60 | 3 | 0 |
| 10 | 53 | 2 | 11 |

In this compartment there are also 91 Ajhar seed beds, averaging 269 feet in length, and 11 feet in width.

The size of the best tree is 20 feet 6 inches in height and 1 foot in girth.

Expenditure was Rs. 21-11-9.

## Bamboo Plantation, 1882.

*Area 2 acres.*

There are now 179 clumps of bamboos of the following species, *viz.* :

| | |
|---|---|
| Jati ... | 165 |
| Jao ... | 14 |
| Total ... | 179 |

The average number of bamboos in each clump is 66 and 25 respectively.
The total number of bamboos cut for departmental use is as follows :

| | |
|---|---|
| Jati ... | 264 |
| Bijuli... | 86 |
| Total ... | 350 |

Expenditure was 12 annas.

## Cinchona Plantation, 1885.

*Compartment No. 1.*

There are 20 trees alive, the average height of these trees being 5 feet and girth 1¼ inches.
The size of the best one is 7 feet in height and 1½ inches in girth.
There are also 2 Ceara Rubber trees averaging 32 and 35 feet in height and 1½ and 1 foot in girth.

Expenditure was Rs. 4-14-6.

## Jubilee Plantation.

*Area 2 acres.*

This is a small plot planted with different kinds of bamboos, canes, and Nahor trees. Sixteen Rubber creepers (received from Upper Assam) were also planted in this plot, and of these, 13 are left alive.

Expenditure was Re. 1-3.

## Nurseries.

The following are the result of the countings made in the different Rubber nurseries, *viz.* :

| No. | Number of plants. |
|---|---|
| 1 | 17 |
| 2 | 188 |
| 3 | 2,631 |
| Total | 2,836 |

Expenditure was Re. 1-8.

## Miscellaneous.

*Bungalow Hill.*

The two Maipak trees now measure 71 and 72 feet in height and have girths of 2 feet 3 inches and 3 feet 8 inches respectively.
There are also 11 *Pithecolobium saman* trees of an average height of 54 feet and girth of 3 feet 11½ inches and 4 Ceara Rubber trees, of which the best one is 56 feet in height and 2 feet 6 inches in girth. Of the *Castilloa elastica* plants, only one is alive, and there are 13 *Landolphia*.
There are 15 *Pithecolobium saman* trees at Rajapara, averaging a height of 20 feet and girth of 2 feet.
There are 89 Rubber trees and 60 Bhaluka bamboos planted along the side of the district road.
The expenditure was Rs. 15-14 from Local Board.
Along the new inspection path 19 Rubber creepers (received from Upper Assam) were planted out, 17 of which are alive.

The total expenditure, including the Rs. 15-14 received from the Local Board, was Rs. 101-7-10. The expenditure on plantation work at Kulsi during the year was—

| | Rs. | a. | p. |
|---|---|---|---|
| 1. Rubber— | | | |
| Old, or eastern block, 88 acres ... ... ... ... | 39 | 4 | 8 |
| New, or western block, 71 acres ... ... ... | 99 | 14 | 9 |
| 2. Teak, 168 acres ... ... ... ... ... | 10 | 10 | 6 |
| 3. Sisu ... ... ... ... ... | 21 | 11 | 9 |
| 4. Khair ... ... ... ... ... | 46 | 11 | 0 |
| 5. Cinchona ... ... ... ... ... | 4 | 14 | 6 |
| 6. Miscellaneous ... ... ... ... ... | 89 | 0 | 10 |
| 7. Establishment ... ... ... ... ... | 249 | 12 | 0 |
| Grand total as per summary ... ... ... ... | 561 | 15 | 7 |

*Table of Rainfall in Kulsi Plantation.*

| | 1890-91. | 1891-92. |
|---|---|---|
| April ... ... ... ... ... | 7·31 | 2·00 |
| May ... ... ... ... ... | 6·05 | 9·45 |
| June ... ... ... ... ... | 10·89 | 5·12 |
| July ... ... ... ... ... | 16·04 | 10·70 |
| August ... ... ... ... ... | 8·45 | 9·46 |
| September ... ... ... ... | 2·70 | 2·10 |
| October ... ... ... ... ... | 1·84 | 0·70 |
| November... ... ... ... ... | ..... | 0·38 |
| December ... ... ... ... ... | ..... | ..... |
| January ... ... ... ... ... | 0·10 | ..... |
| February ... ... ... ... ... | 1·60 | 0·60 |
| March ... ... ... ... ... | 1·80 | 3·95 |
| Total ... ... ... ... ... | 56·78 | 44·46 |

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# Appendix IV.

## CHARDUAR CAOUTCHOUC PLANTATION MEMORANDUM.

### MEASUREMENTS AND COUNTINGS OF TREES.

| Compartment No. | Between 5 and 10 feet. | Between 10 and 15 feet. | Between 15 and 20 feet. | Between 20 and 25 feet. | Between 25 and 30 feet. | Between 30 and 35 feet. | Between 35 and 40 feet. | Between 40 and 45 feet. | Between 45 and 50 feet. | Over 50 feet. | Vacancies. | Total. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 ... ... | ... | ... | 3 | 31 | 153 | 280 | 348 | 220 | 133 | 75 | 4 | 1,247 | 1 washed away by the Mansiri river. |
| 2 ... ... | ... | ... | 15 | 94 | 228 | 310 | 254 | 175 | 93 | 82 | 5 | 1,256 | |
| 3 ... ... | ... | ... | 11 | 57 | 141 | 193 | 213 | 127 | 105 | 107 | 25 | 979 | |
| 4 ... ... | ... | ... | 13 | 68 | 234 | 492 | 542 | 244 | 146 | 202 | 19 | 1,960 | |
| 5 ... ... | ... | ... | 37 | 133 | 416 | 513 | 383 | 208 | 134 | 77 | 23 | 1,924 | |
| 6 ... ... | ... | ... | 18 | 109 | 216 | 271 | 260 | 155 | 71 | 28 | 22 | 1,150 | |
| 7 ... ... | ... | .. | 2 | 30 | 64 | 142 | 317 | 311 | 137 | 61 | 26 | 1,090 | |
| 8 ... ... | ... | ... | 4 | 33 | 113 | 295 | 264 | 168 | 94 | 38 | 21 | 1,030 | |
| 9 ... ... | ... | 1 | 16 | 93 | 202 | 270 | 241 | 132 | 31 | 3 | 26 | 1,015 | |
| 10 ... ... | ... | ... | 4 | 19 | 105 | 277 | 295 | 107 | 20 | ... | 9 | 836 | |
| 11 ... ... | ... | 7 | 115 | 310 | 343 | 374 | 327 | 111 | 28 | 3 | 21 | 1,639 | |
| 12 ... ... | ... | 14 | 187 | 316 | 170 | 48 | ... | ... | ... | ... | 381 | 1,116 | |
| 13 ... ... | ... | 10 | 42 | 75 | 195 | 141 | 36 | 6 | ... | ... | 2 | 507 | |
| 14 ... ... | ... | 17 | 153 | 410 | 472 | 235 | 59 | 16 | ... | ... | 7 | 1,369 | |
| April 1892 ... | ... | 49 | 620 | 1,778 | 3,052 | 3,841 | 3,539 | 1,980 | 992 | 676 | 591 | 17,118 | 1 washed away by Mansiri river. |
| „ 1891 ... | ... | 153 | 899 | 2,094 | 3,308 | 3,897 | 3,401 | 1,723 | 844 | 556 | 244 | 17,119 | |
| „ 1890 ... | ... | 404 | 1,149 | 2,326 | 3,545 | 3,986 | 3,108 | 1,333 | 598 | 437 | 242 | 17,128 | |
| BAMONI HILL RUBBER PLANTATION. | | | | | | | | | | | | | |
| April 1892 ... | 2 | 12 | 12 | 10 | 24 | 60 | 100 | 152 | 167 | 254 | 1 | 794 | |
| „ 1891 ... | 2 | 14 | 11 | 11 | 21 | 68 | 95 | 151 | 170 | 250 | 1 | 794 | |
| „ 1890 ... | 3 | 7 | 14 | 25 | 33 | 45 | 134 | 186 | 196 | 148 | 3 | 794 | |

*Height and Girth of fifty Rubber trees measured in each year's plantation since 1874-75.*

| Year when planted. | 1889-90. | | | | 1890-91. | | | | 1891-92. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average height in feet. | | Average girth in feet. | | Average height in feet. | | Average girth in feet. | | Average height in feet. | | Average girth in feet. | |
| | Feet. | Inches. | Feet. | Inches. | Feet. | Inches. | Feet. | Inches | Feet | Inches. | Feet. | Inches. |
| CHARDUAR. | | | | | | | | | | | | |
| 1874-75 ... ... | 60 | ... | 12 | 2 | 66 | 9 | 13 | 8 | 67 | 11 | 13 | 10 |
| 1875-76 ... ... | 61 | 5 | 9 | 2 | 64 | 9 | 9 | 10 | 65 | 10 | 10 | ... |
| 1876-77 ... ... | 61 | 2 | 8 | 2 | 63 | 10 | 9 | 1 | 64 | 11 | 9 | 2 |
| 1877-78 ... ... | 57 | ... | 6 | 8 | 60 | 9 | 7 | 9 | 61 | 9 | 7 | 10 |
| 1878-79 ... ... | 49 | 5 | 5 | 9 | 52 | 3 | 6 | 11 | 53 | 3 | 7 | ... |
| 1879-80 ... ... | 48 | 5 | 5 | 8 | 52 | 1 | 6 | 7 | 53 | 1 | 6 | 8 |
| 1880-81 ... ... | 43 | 4 | 4 | 10 | 46 | 10 | 4 | 10 | 47 | 10 | 5 | 6 |
| BAMONI HILL. | | | | | | | | | | | | |
| 1874-75 ... ... | 55 | 5 | 12 | 5 | 58 | 10 | 14 | 2 | 60 | 9 | 14 | 2 |

*Condition of Nurseries at the end of 1891-92.*

| Compartment No. | Area in acres. | Number of seedlings. | Height. | | |
|---|---|---|---|---|---|
| | | | Greatest. | Average. | Least. |
| Old nursery, compartment 2 ... | 5·34 | 5,348 | 41′ 4″ | 18′ 7″ | ·2′ 2″ |
| New „ „ 2 ... | ·42 | 4,684 | 30′ 2″ | 15′ 6″ | 4′ 1″ |
| Old nursery, compartment 3 ... | 4·08 | 23,560 | 37′ 6″ | 14′ 0″ | 2′ 5″ |
| New „ „ 3 ... | ·39 | 3,828 | 29′ 2″ | 16′ 4″ | 4′ 2″ |
| Nursery in compartment 9 ... | 4·13 | 13,442 | 39′ 1″ | 16′ 3″ | 3′ 2″ |
| Ditto ditto 10 ... | 9·36 | 16,568 | 32′ 4″ | 12′ 4″ | 2′ 0″ |
| Total ... ... ... | 23·72 | 67,430 | ..... ... | ..... | ..... |

*Details of Expenditure in the Charduar Caoutchouc Plantation during 1891-92, compared with the two previous years.*

| Particulars. | 1889-90. Amount. | 1890-91. Amount. | 1891-92. Amount. |
|---|---|---|---|
| | Rs. a. p. | Rs. a. p. | Rs. a. p. |
| 1. Establishment ... ... ... | 89 8 11 | 150 0 0 | 69 5 0 |
| 2. Plantation fence (including guards for nurseries). ... ... ... | 534 12 0 | 706 14 0 | 705 5 4 |
| 3. Collection, carriage, sowing, and transplanting of various seedlings. ... ... | 20 0 0 | ..... | ..... |
| 4. Clearing lines, removing trees and stumps, repairing mounds, renewing stakes, and levelling paths. | 1,574 12 0 | 2,067 3 0 | 1,570 4 4 |
| 5. Nurseries, fencing, weeding, drainage, &c. ... | 5 0 0 | 1 0 0 | 75 12 0 |
| 6. Pruning of trees in lines ... ... | 6 10 0 | ..... | ..... |
| 7. Planting out Rubber trees A 242, B 367, and C. ... ... ... | A 15 8 0 | B 96 6 0 | C 150 0 0 |
| 8. Miscellaneous ... ... ... | 45 14 0 | 41 14 0 | 51 10 6 |
| 9. Cost of compartment 12, new opening ... | 715 2 0 | 165 11 0 | 200 11 0 |
| 10. Repairing plantation buildings... ... | ..... | 9 4 0 | 60 0 0 |
| 11. Cost of compartment 15, new opening ... | 2,668 0 0 | 1,516 7 0 | 116 14 0 |
| 12. Expenditure on plantation road ... | ..... | 122 6 0 | 181 1 0 |
| 13. Weeding and clearing Nahor, Sam, Amari, and other seedlings in compartment. ... | 4 11 0 | ..... | ..... |
| 14. Cost of corduroyed road between compartments Nos. 13 and 14 ... ... | 1 8 0 | ..... | ..... |
| 15. Cost of compartment 16, new opening ... | 3,289 3 0 | 5,212 0 0 | 863 13 0 |
| 16. Ditto ditto 17, new opening ... | ..... | ..... | 563 0 0 |
| 17. New lines for extending plantation ... | ..... | ..... | 290 1 0 |
| Total ... ... ... ... | 8,970 8 11 | 10,089 1 0 | 4,897 13 2 |

*Rainfall at the Charduar Caoutchouc Plantation for the year 1891-92, compared with the last two years.*

| | Rainfall. | | |
|---|---|---|---|
| | 1889-90. | 1890-91. | 1891-92. |
| April ... ... ... ... ... | 4·73 | 8·21 | 4·46 |
| May ... ... ... ... ... | 12·14 | 4·39 | 9·80 |
| June ... ... ... ... ... | 19·20 | 16·82 | 18·36 |
| July ... ... ... ... ... | 14·69 | 17·63 | 14·12 |
| August ... ... ... ... | 15·69 | 14·60 | 7·38 |
| September ... ... ... ... | 13·36 | 12·16 | 7·11 |
| October ... ... ... ... | 4·23 | 9·18 | ..... |
| November ... ... ... ... | ..... | 0·51 | ..... |
| December ... ... ... ... | 0·24 | 5·53 | ..... |
| January ... ... ... ... | 0·78 | 0·51 | 0·07 |
| February ... ... ... ... | ..... | 0·25 | 1·03 |
| March ... ... ... ... ... | 0·44 | 2·22 | 3·53 |
| Total ... ... ... ... ... | 85·50 | 92·01 | 65·86 |

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# Appendix V.

*Statement of Forest Produce granted free during 1891-92.*

| Description of forest produce. | Cachar Division. | | Sylhet Division | | Goálpára Division. | | Kámrúp Division. | | Darrang Division. | | Nowgong Division. | | Sibságar Division. | | Lakhimpur Division. | | Khási and Jaintia Hills Division. | | Gáro Hills Division. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. | Quantity in cubic feet. | Value. |
| | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| *(a) To rightholders.* | | | | | | | | | | | | | | | | | | | | |
| I. Timber... ... } *Gurkati* permits. | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | 36 | 72 |
| II. Firewood ... } *Gurkati* permits. | | | | | | | | | | | | | | | | | | | | |
| III. Minor forest produce } *Gurkati* permits. | | | | | | | | | | | | | | | | | | | | |
| Total ... ... .. | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | 72 |
| *(b) Under concessions granted by the Local Government.* | | | | | | | | | | | | | | | | | | | | |
| I. Timber ... ... ... | 7,764 | 243 | 17,404 | 1.088 | 43,782 | 2,926 | 40,510 | 2,100 | 1,14,360 | 11,436 | 36.680 | 3,668 | 1,84,240 | 18,424 | 50,748 | 5,143 | 1,000 | 21 | ..... | ... |
| Ia. Bamboos (number) ... ... | 64,400 | 161 | 1,628,850 | 3,961 | ..... | ... | 17,600 | 176 | 23.375 | 234 | 90,750 | 907 | 54,053 | 541 | 31,280 | 592 | ..... | ... | ..... | ... |
| II. Firewood ... ... | 94,500 | 1,477 | 923,808 | 14,434 | 139,194 | 1.087 | 66.600 | 1,041 | 172,192 | 2,690 | 3,20,948 | 5,015 | 2,42,294 | 3,786 | 45,520 | 711 | ..... | ... | ..... | ... |
| III. Minor forest produce ... | ..... | 317 | ..... | 4,500 | ..... | 29 | ..... | ... | ..... | 85 | ..... | 51 | ..... | 63 | ..... | 21 | ..... | 31 | ..... | ... |
| IV. Grass, grazing, and leaf fodder ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | .. | ..... | ... | ..... | ... | ..... | ... | ..... | ... |
| V. Branches, leaves and vegetable mould for manuring purposes ... | ..... | .. | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... |
| Total ... ... ... | ..... | 2,198 | ..... | 23,983 | ..... | 4,042 | ..... | 3,317 | ..... | 14,445 | ..... | 9.641 | ..... | 22,814 | ..... | 6,467 | ..... | 52 | ..... | ... |
| *(c) By free grants under executive orders.* | | | | | | | | | | | | | | | | | | | | |
| I. Timber ... ... ... | ..... | ... | ..... | ... | 40,056 | 2,498 | 4,513 | 316 | 1,200 | 320 | 80 | 8 | 4.608 | 326 | ..... | ... | ..... | ... | ..... | ... |
| Ia. Bamboos (number) ... | ..... | ... | ..... | ... | ..... | ... | 84,900 | 849 | ..... | .. | 37,800 | 378 | ..... | ... | ..... | ... | ..... | ... | ..... | ... |
| II. Firewood ... ... | ..... | ... | ..... | ... | 302,768 | 4.731 | 44,600 | 697 | ..... | ... | 56,400 | 881 | ..... | ... | ..... | ... | ..... | ... | ..... | ... |
| III. Minor forest produce ... | ..... | ... | ..... | ... | ..... | 7 | ..... | 16 | ..... | ... | ..... | 4 | ..... | ... | ..... | ... | ..... | ... | ..... | ... |
| IV. Grass, grazing, and leaf fodder ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... |
| V. Branches, leaves and vegetable mould for manuring purposes ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... | ..... | ... |
| Total ... ... ... | ..... | ... | ..... | ... | ..... | 7,236 | ..... | 1,878 | ..... | 320 | ..... | 1,271 | ..... | 326 | ..... | ... | ..... | ... | ..... | ... |
| Grand total ... ... ... | ..... | 2,198 | ..... | 23,983 | ..... | 11,278 | ..... | 5,195 | ..... | 14,765 | ..... | 10,912 | ..... | 23,140 | ..... | 6,467 | ..... | 52 | ..... | 72 |

# Appendix VI.

*Forest Produce exported from, and remaining in, the District of Cachar at the close of 1891-92.*

SONAI AND SYALTEK.

| Description of forest produce | Quantity of forest produce which passed the Sonai revenue station. | | | Quantity of forest produce which had passed the Sonai revenue station and was again checked at Syaltek revenue station. | | | Amount of forest produce which remained in the district at the close of the year. | | |
|---|---|---|---|---|---|---|---|---|---|
| | From Government and foreign forests. | From private forests. | Total. | From Government and foreign forests. | From private forests. | Total. | From Government and foreign forests. | From private forests. | Total. |
| Logs ... ... ... ... | 9,446 | 6,520 | 15,966 | 4,701 | 5,565 | 10,266 | 4,745 | 955 | 5,700 |
| Agar (baskets) ... ... ... | 12 | ..... | 12 | 12 | 4 | 16 | ..... | ..... | ..... |
| Posts and planks ... ... ... | ..... | 2,757 | 2,757 | ..... | 1,466 | 1,466 | ..... | 1,291 | 1,291 |
| Poles ... ... ... ... | 88 | ..... | 88 | 84 | 1 | 85 | 4 | ..... | 4 |
| Bamboos ... ... ... | 817,080 | 20,450 | 837,530 | 623,555 | 22,550 | 646,105 | 193,525 | ..... | 193,525 |
| Canes (bundles) ... ... ... | 20,662 | 1,840 | 22,502 | 18,282 | 1,691 | 19,973 | 2,380 | 149 | 2,529 |
| Sun-grass and reeds (cubic feet) ... | 18,300 | 1,630,469 | 1,648,769 | 5,125 | 1,101,736 | 1,106,861 | 13,175 | 528,733 | 541,908 |
| Firewood ... ... ... | 6,768 | 18,234 | 25,002 | 414 | 1,878 | 2,292 | 6,354 | 16,356 | 22,710 |
| Dugouts ... ... ... | 20 | 1 | 21 | 1 | 1 | 2 | 19 | ..... | 19 |
| **MATIJURI AND SYALTEK.** | | | | | | | | | |
| Logs ... ... ... ... | 1,061 | 2,216 | 3,277 | 510 | 1,389 | 1,899 | 551 | 827 | 1,378 |
| Agar (baskets) ... ... ... | ..... | 5 | 5 | ..... | ..... | ..... | ..... | 5 | 5 |
| Posts and planks ... ... ... | ..... | 298 | 298 | ..... | 71 | 71 | ..... | 227 | 227 |
| Poles ... ... ... ... | 12 | ..... | 12 | 9 | ..... | 9 | 3 | ..... | 3 |
| Bamboos ... ... ... | 196,417 | 146,562 | 342,979 | 183,720 | 112,667 | 296,387 | 12,697 | 33,895 | 46,592 |
| Canes (bundles) ... ... ... | 6,509 | 3,111 | 9,620 | 6,236 | 2,852 | 9,088 | 273 | 259 | 532 |
| Sun-grass and reeds (cubic feet) ... | 119 | 15,885 | 16,004 | 75 | 38,373 | 38,448 | 44 | ..... | 44 |
| Firewood and charcoal ... ... | 192 | 867 | 1,059 | ..... | 246 | 246 | 192 | 621 | 813 |

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# Appendix VI—*continued.*

*Statement showing the Trade in Forest Produce from Government, Foreign, and Private Forests in the Cachar Division in the year 1891-92.*

| Revenue station. | Locality. | Logs. | | | Boats. | | | Posts and planks. | | | Poles. | | | Bamboos. | | Canes. | | Sun-grass and reeds. | | Agar. | | Firewood and charcoal. | | Fees. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Amount. | Number. | Cubic feet. | Amount. | Number. | Cubic feet. | Amount. | Number. | Cubic feet. | Amount. | Number. | Amount. | Number of bundles. | Amount. | Cubic feet. | Amount. | Number of baskets. | Amount. | Cubic feet. | Amount. | Amount. |
| | | | | Rs. a. p. | | | Rs. a. p. | | | Rs. a. p. | | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | Rs. a. p. |
| Sonai. | Reserved forests .. .. | 6,095 | 133,965 | 14,794 11 0 | .. | .... | ..... | .. | .. | ..... | 100 | 400 | 12 8 0 | 532,425 | 1,330 15 0 | 15,796 | 987 4 0 | 5,126 | 12 13 0 | .... | ..... | 5,817 | 60 9 6 | 390 8 0 |
| | Unclassed State forest and waste land .. .. | 1,302 | 38,858 | 4,269 5 0 | 19 | 570 | 106 4 0 | .. | .. | ..... | 68 | 232 | 7 4 0 | 183,806 | 459 8 3 | 1,209 | 78 4 0 | 13,176 | 131 12 0 | 12 | 18 0 0 | 1,962 | 20 7 0 | 150 0 0 |
| | Total Government forests .. | 7,397 | 232,823 | 19,063 14 0 | 19 | 570 | 106 4 0 | - | .. | ..... | 168 | 632 | 19 12 0 | 716,230 | 1,790 7 3 | 17,005 | 1,065 8 0 | 18,300 | 144 9 0 | 12 | 18 0 0 | 7,779 | 81 0 6 | 540 8 0 |
| | Foreign forests .. .. | 2,412 | 61,757 | 5,108 4 0 | 1 | 30 | 6 0 0 | .. | .. | ..... | 2 | 8 | 0 4 0 | 1,06,000 | 262 8 0 | 3,657 | 228 9 0 | .... | ..... | .... | ..... | 246 | 2 9 0 | 96 8 0 |
| | Private forests .. .. | 6,520 | 156,066 | ..... | 1 | 30 | ..... | 2,757 | 1,806 | ..... | .. | .. | ..... | 20,450 | ..... | 1,840 | ..... | 1,630,469 | ..... | .... | ..... | 18,234 | ..... | ..... |
| | Total Sonai .. .. | 16,329 | 450,646 | 24,172 2 0 | 21 | 630 | 112 4 0 | 2,757 | 1,806 | ..... | 160 | 640 | 20 0 0 | 841,680 | 2,052 15 3 | 22,502 | 1,294 1 0 | 1,648,769 | 144 9 0 | 12 | 18 0 0 | 26,259 | 83 9 6 | 637 0 0 |
| Matijuri. | Reserved forests .. .. | 1,097 | 42,031 | 3,109 14 0 | .. | .... | ..... | .. | .. | ..... | 10 | 40 | 1 4 0 | 137,717 | 344 5 0 | 6,458 | 403 10 0 | 75 | 0 3 0 | .... | ..... | .... | ..... | 108 4 0 |
| | Unclassed State forests and waste land .. .. | 152 | 4,689 | 881 9 0 | .. | .... | ..... | .. | .. | ..... | 2 | 8 | 0 4 0 | 63,900 | 159 8 0 | 54 | 3 6 0 | 44 | 5 7 6 | .... | ..... | 192 | 2 0 0 | 27 12 0 |
| | Total Government forests .. | 1,249 | 46,720 | 3,991 7 0 | .. | .... | ..... | .. | .. | ..... | 12 | 48 | 1 8 0 | 201,617 | 503 13 0 | 6,512 | 407 0 0 | 119 | 5 10 6 | .... | ..... | 192 | 2 0 0 | 130 0 0 |
| | Foreign forests .. .. | .... | ..... | ..... | .. | .... | ..... | .. | .. | ..... | | .. | ..... | ..... | ..... | ..... | ..... | .... | ..... | .... | ..... | .... | ..... | ..... |
| | Private forests .. .. | 2,216 | 50,144 | ..... | .. | .... | ..... | 298 | 360 | ..... | .. | .. | ..... | 146,562 | ..... | 3,111 | ..... | 15,685 | ..... | 5 | ..... | 867 | ..... | ..... |
| | Total Matijuri .. .. | 3,465 | 96,864 | 3,991 7 0 | .. | .... | ..... | 298 | 360 | ..... | 12 | 48 | 1 8 0 | 348,079 | 503 13 0 | 9,622 | 407 0 0 | 15,804 | 5 10 6 | 5 | ..... | 1,059 | 2 0 0 | 130 0 0 |
| North Cachar. | Protected forests .. .. | 91 | 2,730 | 318 0 0 | .. | .... | ..... | .. | .. | ..... | .. | .. | ..... | ..... | ..... | ..... | ..... | .... | ..... | .... | ..... | .... | ..... | ..... |
| | Total North Cachar .. | 91 | 2,730 | 318 0 0 | .. | .... | ..... | .. | .. | ..... | .. | .. | ..... | ..... | ..... | ..... | ..... | .... | ..... | .... | ..... | .... | ..... | ..... |
| Syaltek | Unclassed State forests and waste land .. .. | 1,072 | 31,860 | 2,547 12 0 | .. | .... | ..... | .. | .. | ..... | 176 | 704 | 22 0 0 | 50,100 | 125 4 0 | 396 | 24 12 0 | 31 | 3 14 0 | .... | ..... | 2,715 | 28 4 6 | 89 12 0 |
| | Total unclassed State forest and waste land .. .. | 1,072 | 31,860 | 2,547 12 0 | .. | .... | ..... | .. | .. | ..... | 176 | 704 | 22 0 0 | 50 100 | 125 4 0 | 396 | 24 12 0 | 31 | 3 14 0 | .... | ..... | 2,715 | 28 4 6 | 89 12 0 |
| | Foreign forests .. .. | .... | ..... | ..... | .. | .... | ..... | .. | .. | ..... | .. | .. | ..... | ..... | ..... | ..... | ..... | .... | ..... | .... | ..... | .... | ..... | ..... |
| | Private forests .. .. | 512 | 13,543 | ..... | .. | .... | ..... | 30 | 30 | ..... | .. | .. | ..... | 57,050 | ..... | 75 | ..... | 308,421 | ..... | .... | ..... | .... | ..... | ..... |
| | Total Syaltek .. .. | 1,584 | 45,403 | 2,547 12 0 | .. | .... | ..... | 30 | 30 | ..... | 176 | 704 | 22 0 0 | 107,150 | 125 4 0 | 471 | 24 12 0 | 308,452 | 3 14 0 | .... | ..... | 2,715 | 28 4 6 | 89 12 0 |
| | Grand total .. .. | 21,469 | 595,543 | 31,029 5 0 | 21 | 630 | 112 4 0 | 3,085 | 2,196 | ..... | 348 | 1,392 | 43 8 0 | 1,296,909 | 2,682 0 3 | 32,596 | 1,725 13 0 | 1,97 ,225 | 154 1 6 | 17 | 18 0 0 | 30,033 | 112 14 0 | 856 12 0 |
| | Add stock and value of previous year .. .. .. | 401 | 10,961 | 1,243 12 9 | 1 | 30 | 6 0 0 | 134 | 549 | 44 14 9 | 87 | 348 | 10 14 0 | 4,150 | 10 6 0 | ..... | ..... | .... | ..... | ... | ..... | 1,098 | 17 2 6 | 15 0 0 |
| | Total .. .. .. | 21,870 | 606,504 | 32,273 1 9 | 22 | 660 | 118 4 0 | 3,219 | 2,745 | 44 14 9 | 435 | 1,740 | 54 6 0 | 1,301,059 | 2,692 6 3 | 32,596 | 1,725 13 0 | 1,973,225 | 154 1 6 | 17 | 18 0 0 | 31,131 | 131 0 6 | 871 12 0 |
| | Deduct stock and value at the close of 1891-92 .. .. | 772 | 21,099 | 2,078 11 9 | 1 | 30 | 6 0 0 | 134 | 549 | 44 14 9 | 74 | 296 | 9 4 0 | 9,250 | 22 2 0 | 3 | 0 3 0 | .... | ..... | .... | ..... | 1,257 | 10 14 6 | 20 8 0 |
| | Net result .. .. | 21,097 | 585,405 | 30,200 6 0 | 21 | 630 | 112 4 0 | 3,085 | 2,196 | ..... | 361 | 1,444 | 45 2 0 | 1,291,809 | 2,669 4 3 | 32,593 | 1,725 10 0 | 1,973,225 | 154 1 6 | 17 | 18 0 0 | 29,874 | 820 2 0 | 851 4 0 |
| | Government forests .. | 9,464 | 304,144 | 24,956 0 0 | 19 | 570 | 106 4 0 | .. | .. | ..... | 359 | 1,436 | 44 14 0 | 962,747 | 2,406 12 3 | 23,910 | 1,497 1 0 | 18,460 | 154 1 6 | 12 | 18 0 0 | 10,447 | 117 9 0 | 758 12 0 |
| | Foreign forests .. .. | 2,285 | 61,809 | 5,244 6 0 | 1 | 30 | 6 0 0 | .. | .. | ..... | 2 | 8 | 0 4 0 | 105,000 | 262 8 0 | 3,657 | 228 9 0 | .... | ..... | .... | ..... | 224 | 2 9 0 | 97 8 6 |
| | Private forests .. .. | 9,348 | 219,753 | ..... | 1 | 30 | ..... | 3,085 | 2,196 | ..... | .. | .. | ..... | 224,062 | ..... | 5,026 | ..... | 1,954,765 | ..... | 5 | ..... | 19,101 | ..... | ..... |

H. G. YOUNG,

*Assistant Conservator of Forests, Cachar Division.*

## Appendix VI—*continued.*

*Statement showing the Increase and Decrease in Forest Produce from the Government, Foreign, and Private Forests in the Cachar Division during 1891-92, as compared with 1890-91.*

| Description of forest produce | Government forests. | | | | | | | | Foreign forests. | | | | | | | | Private forests. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1890-91. | | | 1891-92. | | | Increase | Decrease. | 1890-91. | | | 1891-92. | | | Increase. | Decrease. | 1890-91. | 1891-92. | Increase | Decrease. |
| | Royalty paid. | Royalty outstanding. | Total. | Royalty paid. | Royalty outstanding. | Total. | | | Duty paid. | Duty outstanding. | Total. | Duty paid. | Duty outstanding. | Total. | | | | | | |
| Logs (No.) ... | 6,773 | 371 | 7,144 | 9,464 | 716 | 10,180 | 3,036 | ..... | 1,906 | 30 | 1,936 | 2,385 | 57 | 2,442 | 506 | ... | 17,970 | 9,248 | ..... | 8,722 |
| Agar (baskets) ... | ..... | ... | ..... | 12 | ..... | 12 | 12 | ..... | ..... | ... | ..... | ..... | ... | ..... | ... | ... | 311 | 5 | ..... | 306 |
| Posts and planks (No.) ... | 383 | 124 | 507 | ..... | 124 | 124 | ..... | 383 | ..... | 10 | 10 | ..... | 10 | 10 | ... | ... | 177 | 3,085 | 2,908 | ..... |
| Bamboos " ... | 1,203,675 | 3,400 | 1,207,025 | 962,747 | 8,500 | 971,247 | ..... | 235,778 | 60,350 | 750 | 61,100 | 105,000 | 750 | 105,750 | 44,650 | ... | 143,383 | 224,062 | 80,679 | ..... |
| Canes (bundles) ... | 18,425 | ... | 18,425 | 23,910 | 3 | 23,913 | 5,488 | ..... | 451 | ... | 451 | 3,657 | ... | 3,657 | 3,206 | ... | 6,747 | 5,026 | ..... | 1,721 |
| Sun-grass and reeds (c. ft.) ... | 31,968 | ... | 31,968 | 73,800 | ..... | 73,800 | 41,832 | ..... | ..... | ... | ..... | ..... | ... | ..... | ... | ... | 555,738 | 7,819,100 | 7,263,362 | ..... |
| Firewood and charcoal (c. ft.) | 7,893 | 1,058 | 8,951 | 10,547 | 1,197 | 11,744 | 2,793 | ..... | 102 | 40 | 142 | 226 | 60 | 286 | 144 | ... | 16,752 | 19,101 | 2,348 | ..... |
| Dugouts (No.) ... | 15 | 1 | 16 | 19 | 1 | 20 | 4 | ..... | 1 | ... | 1 | 1 | ... | 1 | ... | ... | 27 | 1 | ..... | 26 |
| Poles " ... | 398 | 87 | 485 | 359 | 74 | 433 | ..... | 52 | 1 | ... | 1 | 2 | ... | 2 | 1 | ... | 19 | ..... | ..... | 19 |

H. G. YOUNG,

*Assistant Conservator of Forests, Cachar Division.*

## Appendix VI—*continued.*

*Forest Produce passed at Patharkandi, Habiganj, Kanairghat, and South Sylhet during each month, 1891-92.*

| Month | Patharkandi | | | | | | | | | | | Habiganj. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Logs. | Agar | Posts and planks. | Bamboos | Canes | Sun-grass and reeds. | Poles. | Pati | Firewood | Dugouts. | Amount realised. | Logs | Agar | Posts and planks. | Bamboos. | Canes. | Sun-grass and reeds. | Poles. | Pati. | Firewood. | Dugouts. | Amount realised. |
| | | | | | | | | | | | Rs. a. p. | | | | | | | | | | | Rs. a. p. |
| April ... ... ... | 33 | ... | 62 | 38.925 | 1,067 | 34,200 | ... | ... | 4 | ... | 303 2 0 | 1 | ... | ... | ..... | ... | ..... | ... | ... | 32 | ... | 2 0 0 |
| May ... ... ... | 249 | ... | 24 | 67,600 | 71 | 11,415 | ... | 13,000 | 1,614 | ... | 545 8 6 | ... | ... | ... | 7,500 | ... | 2,400 | ... | ... | 96 | ... | 17 15 0 |
| June ... ... ... | 538 | ... | 3 | 108,870 | 389 | 22.928 | ... | 4,750 | 102 | ... | 1,308 14 6 | 18 | ... | 22 | 34,700 | ... | 15,946 | ... | ... | 176 | ... | 104 14 0 |
| July ... ... ... | 620 | ... | 8 | 50,450 | 658 | 1.976 | 6 | 5.600 | 50 | ... | 1,776 2 6 | 3 | ... | 5 | 30,626 | ... | 600 | ... | ... | 52 | ... | 46 9 9 |
| August ... ... ... | 442 | ... | 7 | 46,125 | 865 | ..... | 10 | 1,400 | 99 | ... | 1,093 14 6 | 7 | ... | ... | 12,700 | ... | 3,100 | ... | ... | 373 | ... | 53 8 0 |
| September ... ... | 216 | ... | 27 | 64,475 | 842 | 3,363 | 156 | 700 | 414 | ... | 1,194 15 4 | 19 | ... | ... | 7,200 | ... | 610 | ... | ... | ... | ... | 16 4 6 |
| October ... ... | 326 | ... | 139 | 112,300 | 1,038 | 3.920 | ... | 750 | 398 | ... | 1,236 6 0 | 1 | ... | 12 | 45,750 | ... | 19,600 | ... | ... | 128 | ... | 120 5 0 |
| November ... ... | 120 | ... | 16 | 102,351 | 2,623 | 750 | 48 | 32.100 | 471 | ... | 750 14 0 | 5 | ... | ... | 34,200 | 4 | 19,200 | ... | ... | 96 | ... | 98 0 6 |
| December ... ... | 64 | ... | 36 | 10,125 | 472 | 1,307 | 238 | ... | ... | ... | 180 4 9 | 2 | ... | ... | 83,100 | ... | 8,625 | ... | ... | 40 | ... | 41 1 6 |
| January ... ... | 48 | ... | 1 | 10,870 | 43 | 15,200 | 25 | 3,000 | 1,938 | ... | 241 0 0 | ... | ... | 20 | 8,000 | ... | 29,340 | ... | ... | 128 | ... | 88 9 9 |
| February ... ... | 25 | ... | 107 | 21,100 | 75 | 112,624 | 18 | ... | ... | ... | 412 11 0 | 30 | ... | 25 | 32,900 | ... | 24,433 | ... | ... | ... | ... | 148 2 3 |
| March ... ... ... | 61 | ... | 38 | 8,550 | 44 | 21,325 | 28 | ... | ... | ... | 258 10 0 | 1 | ... | 24 | 36,025 | 2 | 5,000 | ... | ... | 8 | ... | 68 7 0 |
| Total ... ... ... | 2,742 | ... | 468 | 641,741 | 8,187 | 229,008 | 529 | 61,300 | 5,090 | ... | 9,302 6 7 | 87 | ... | 108 | 332,701 | 6 | 128,854 | ... | ... | 1,129 | ... | 805 13 3 |

## Appendix VI—*continued.*

*Forest Produce passed at Patharkandi, Habiganj, Kanairghat, and South Sylhet during each month, 1891-92.*

| Month. | Kanairghat | | | | | | | | | | | South Sylhet. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Logs. | Agar. | Posts and planks. | Bamboos. | Canes. | Sun-grass and reeds. | Poles. | Fuel. | Firewood. | Dugouts. | Amount realised. | Logs. | Agar. | Posts and planks. | Bamboos. | Canes. | Sun-grass and reeds. | Poles. | Fuel. | Firewood. | Dugouts. | Amount realised. |
| | | | | | | | | | | | Rs. a. p. | | | | | | | | | | | Rs. a. p. |
| April ... ... ... | 37 | ... | 24 | 360 | 70 | ... | 5 | ... | 143 | 5 | 150 6 9 | ... | ... | 20 | 100 | 4 | 1,200 | ... | ... | ... | ... | 6 0 0 |
| May ... ... ... | 34 | ... | 4 | 1,100 | 20 | ... | 100 | ... | 262 | 4 | 70 7 6 | ... | ... | ... | ..... | ... | ..... | ... | ... | 80 | ... | 2 8 0 |
| June ... ... ... | 182 | ... | ... | ..... | 2 | ... | 2 | ... | 60 | ... | 402 10 6 | ... | ... | ... | 2,050 | ... | 500 | ... | ... | ... | 5 | 6 11 0 |
| July ... ... ... | 67 | ... | 4 | 2,400 | ... | ... | 7 | ... | ... | 91 | 218 2 6 | 2 | ... | ... | ..... | ... | ..... | ... | ... | ... | 23 | 19 8 0 |
| August ... ... ... | 2 | ... | ... | ..... | 20 | ... | ... | ... | 32 | 17 | 18 12 0 | 8 | ... | ... | ..... | 1 | ..... | ... | ... | 19 | 3 | 18 11 6 |
| September ... ... | 27 | ... | 2 | 200 | ... | ... | ... | ... | 16 | 1 | 39 11 9 | 26 | ... | ... | 1,000 | ... | 12,800 | ... | ... | ... | 18 | 88 2 3 |
| October ... ... ... | 2 | ... | 4 | ..... | 48 | ... | 60 | ... | 12 | 8 | 21 1 2 | 29 | ... | ... | 22,125 | ... | 6,800 | ... | ... | ... | ... | 84 10 0 |
| November ... ... | 22 | ... | 2 | ..... | 256 | ... | 13 | ... | 128 | 3 | 96 14 0 | 6 | ... | 1 | 28,950 | ... | 28,800 | ... | ... | 132 | 8 | 159 11 0 |
| December ... ... | 40 | ... | 21 | ..... | 14 | ... | ... | ... | 17 | 8 | 68 14 0 | ... | ... | ... | 4,150 | ... | ..... | ... | ... | ... | ... | 10 6 0 |
| January ... ... ... | 2 | ... | 6 | 200 | 118 | ... | 3 | ... | 504 | 6 | 37 0 0 | 5 | ... | 30 | 9,000 | ... | 48,800 | ... | ... | 8 | ... | 175 13 0 |
| February ... ... | 11 | ... | ... | 300 | 63 | ... | 4 | ... | 80 | 25 | 31 10 3 | ... | ... | ... | ..... | ... | 200 | ... | ... | ... | ... | 0 8 0 |
| March ... ... ... | 5 | ... | ... | 200 | 160 | ... | 7 | ... | 85 | ... | 24 5 0 | 7 | ... | 32 | 10,200 | ... | ..... | ... | ... | 3 | 16 | 61 14 0 |
| Total ... ... ... | 431 | ... | 67 | 4 760 | 771 | ... | 201 | ... | 1,339 | 168 | 1,173 15 6 | 83 | ... | 83 | 77,575 | 5 | 99,100 | ... | ... | 242 | 73 | 634 6 9 |

TARA KISOR GUPTA,

*Extra Assistant Conservator of Forests, Sylhet Division.*

## Appendix VI—*continued.*

*Statement showing the Forest Produce removed from the Government, Foreign, and Private Forests in the Sylhet Division, 1891-92.*

| Revenue station. | Locality. | Logs. | | | Agar. | | Posts and planks | | | Poles. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet | Amount. | Baskets. | Amount. | Number. | Cubic feet. | Amount. | Number. | Cubic feet. | Amount. |
| | | | | Rs. a. p. | | | | | Rs. a. p. | | | Rs. a. p. |
| Patharkandi. | Government ... Reserved ... ... | 1,911 | 38,245 | 3,788 1 0 | ..... | ..... | 249 | 249 | 31 2 0 | 199 | 796 | 24 14 0 |
| | Government ... Protected ... ... | 831 | 21,630 | 2,329 8 3 | ..... | ..... | 219 | 578 | 90 9 0 | 330 | 1,320 | 41 4 0 |
| | Total ... ... ... ... | 2,742 | 59,875 | 6,117 9 3 | ..... | ..... | 468 | 827 | 121 11 0 | 529 | 2,116 | 66 2 0 |
| | Foreign ... ... ... | 3,466 | 97,657 | ..... | ..... | ..... | 120 | 248 | ..... | 3 | 12 | ..... |
| | Private ... ... ... | 1,098 | 24,288 | ..... | ..... | ..... | 43 | 86 | ..... | ..... | ..... | ..... |
| | Total ... ... ... ... | 4,564 | 121,945 | ..... | ..... | ..... | 163 | 334 | ..... | 3 | 12 | ..... |
| Habiganj. | Government protected forests ... ... | 87 | 1,097 | 109 9 0 | ..... | ..... | 108 | 302 | 42 15 3 | ..... | ..... | ..... |
| | Foreign ... ... ... | 4,016 | 73,448 | ..... | ..... | ..... | 627 | 1,254 | ..... | ..... | ..... | ..... |
| | Private ... ... ... | 87 | 1,057 | ..... | ..... | ..... | 58 | 116 | ..... | ..... | ..... | ..... |
| | Total ... ... ... ... | 4,190 | 75,602 | 109 9 0 | ..... | ..... | 793 | 1,672 | 42 15 3 | ..... | ..... | ..... |
| Kanairghat. | Unclassed State forests and waste lands ... | 431 | 10,354 | 889 11 0 | ..... | ..... | 67 | 289 | 22 4 6 | 201 | 804 | 25 2 0 |
| | Foreign ... ... ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Private ... ... ... | 133 | 2,783 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Total ... ... ... ... | 564 | 13,137 | 889 11 0 | ..... | ..... | 67 | 289 | 22 4 6 | 201 | 804 | 25 2 0 |
| South Sylhet. | Unclassed State forests and waste lands ... | 83 | 1,432 | 144 6 0 | ..... | ..... | 83 | 168 | 11 8 0 | ... | ..... | ..... |
| | Foreign ... ... ... | 5,498 | 119,039 | ..... | ..... | ..... | ..... | ..... | ..... | 75 | 259 | ..... |
| | Private ... ... ... | 883 | 15,971 | ..... | ..... | ..... | 54 | 100 | ..... | ..... | ..... | ..... |
| | Total ... ... ... ... | 6,464 | 136,442 | 144 6 0 | ..... | ..... | 137 | 268 | 11 8 0 | 75 | 259 | ..... |
| | Grand total ... ... ... | 15,782 | 347,126 | 1,143 10 0 | ..... | ..... | 1,160 | 2,563 | 76 1 9 | 279 | 1,075 | 25 2 0 |

# Appendix VI—*concluded.*

*Statement showing the Forest Produce removed from the Government, Foreign, and Private Forests in the Sylhet Division, 1891-92*—concluded.

| Revenue station. | Locality. | Dugouts. Number. | Dugouts. Cubic feet. | Dugouts. Amount. | Bamboos. Number. | Bamboos. Amount. | Canes. Number of bundles. | Canes. Amount. | Pati. Dals. | Pati. Amount. | Sun-grass and reeds. Cubic feet. | Sun-grass and reeds. Amount. | Firewood. Maunds. | Firewood. Amount. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. | | Rs. a. p. |
| Pathankandi. | Government { Reserved ... | ..... | ..... | ..... | 521,520 | 1,303 14 0 | 5,514 | 344 9 6 | 52,375 | 32 11 9 | 145,123 | 363 13 6 | 2,946 | 92 1 0 |
| | Government { Protected ... | ..... | ..... | ..... | 120,221 | 250 5 3 | 2,673 | 167 1 0 | 8,925 | 6 3 3 | 83,885 | 371 2 0 | 2,144 | 65 3 1 |
| | Total ... ... | ..... | ..... | ..... | 641,741 | 1,554 3 3 | 8,187 | 511 10 6 | 61,300 | 38 15 0 | 229,008 | 734 15 6 | 5,090 | 157 4 1 |
| | Foreign ... ... | ..... | ..... | ..... | 862,325 | ..... | 21,160 | ..... | 31,200 | ..... | 18,423 | ..... | 7 | ..... |
| | Private ... ... | ..... | ..... | ..... | 1,415,340 | ..... | 98 | ..... | ..... | ..... | 147,843 | ..... | ..... | ..... |
| | Total ... ... | ..... | ..... | ..... | 2,277,665 | ..... | 21,258 | ..... | 31,200 | ..... | 166,266 | ..... | 7 | ..... |
| Habiganj. | Government protected forest | ..... | ..... | ..... | 332,701 | 292 7 9 | 6 | 0 6 0 | ..... | ..... | 128,854 | 325 3 3 | 1,129 | 35 4 0 |
| | Foreign ... ... | ..... | ..... | ..... | 2,554,370 | ..... | 5,451 | ..... | ..... | ..... | 75,113 | ..... | 5 | ..... |
| | Private ... ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 37,481 | ..... | 5,764 | ..... |
| | Total ... ... | ..... | ..... | ..... | 2,887,071 | 292 7 9 | 5,457 | 0 6 0 | ..... | ..... | 241,448 | 325 3 3 | 6,898 | 35 4 0 |
| Kanairghat. | Unclassed State forests and waste lands ... | 168 | 1,475 | 131 12 9 | 4,760 | 7 12 0 | 771 | 48 2 6 | 4,575 | 3 6 9 | ..... | ..... | 1,339 | 45 12 0 |
| | Foreign ... ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Private ... ... | ..... | ..... | ..... | 1,220 | ..... | 200 | ..... | ..... | ..... | 244,198 | ..... | ..... | ..... |
| | Total ... ... | 168 | 1,475 | 131 12 9 | 5,980 | 7 12 0 | 971 | 48 2 6 | 4,575 | 3 6 9 | 244,198 | ..... | 1,339 | 45 12 0 |
| South Sylhet. | Unclassed State forests and waste lands ... ... | 73 | 577 | 46 0 3 | 77,575 | 175 7 0 | 5 | 0 5 0 | ..... | ..... | 99,100 | 248 1 0 | 242 | 8 11 6 |
| | Foreign ... ... | 642 | 10,728 | ..... | 1,449,571 | ..... | 7,897 | ..... | 150 | ..... | 182,455 | ..... | 83 | ..... |
| | Private ... ... | 227 | 3,987 | ..... | 216,025 | ..... | ..... | ..... | .... | .... | 14,706 | ..... | 300 | ..... |
| | Total ... ... | 942 | 15,292 | 46 0 3 | 1,743,171 | 175 7 0 | 7,902 | 0 5 0 | 150 | ..... | 296,261 | 248 1 0 | 625 | 8 11 6 |
| | Grand total ... ... | 1,110 | 16,767 | 177 13 0 | 6,913,887 | 475 10 9 | 35,588 | 48 13 6 | 35,925 | 3 6 9 | 948,173 | 673 4 3 | 8,869 | 89 11 6 |

TARA KISOR GUPTA,

*Extra Assistant Conservator of Forests, Sylhet Division.*

# Appendix VII.

*Imports of Forest Produce during 1891-92 as compared with 1890-91.*

| — | 1890-91. Description of timber or other produce. Logs. No. | Logs. C. ft. | Boats or dugouts. No. | Boats or dugouts. C. ft. | Poles. No. | Poles. C. ft. | Fuel. No. | Fuel. C. ft. | Bamboos. No. | Canes. Bundles. | Thatching grass. C. ft. | Rubber. Mds. | 1891-92. Description of timber or other produce. Logs. No. | Logs. C. ft. | Boats or dugouts. No. | Boats or dugouts. C. ft. | Poles. No. | Poles. C. ft. | Fuel. No. | Fuel. C. ft. | Bamboos. No. | Canes. Bundles. | Thatching grass. C. ft. | Rubber. Mds. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| From beyond Inner Line of Lakhimpur ... ... | ... | ... | 9 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| „ Manipur and Lushai country ... ... | 1,881 | 57,944 | ... | ... | 1 | 4 | ... | 102 | 60,350 | 431 | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 |
| „ Hill Tipperah ... | 13,084 | 295,595 | ... | ... | ... | ... | ... | 836 | 5,229,849 | 20,674 | 168,743 | ... | 12,980 | 290,144 | ... | ... | ... | ... | ... | 190 | 4,866,266 | 34,508 | 275,991 | ... |
| „ Bhutan and Towang ... | ... | ... | 315 | ... | ... | ... | ... | ... | ... | ... | ... | 29 | ... | ... | 497 | ... | ... | ... | ... | ... | ... | ... | ... | 38 |
| „ Dafla Hills ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 55 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 481 |
| „ Nága, Mishmi, and Singpho Hills ... ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,661 | ... | ... | ... | ... | ... | ... | .. | ... | ... | ... | ... | 1,155 |

# Appendix VII—*continued.*

*Imports and Exports of Forest Produce by river during 1891-92.*

| Name of forest produce. | Denomination. | Registered at Dhubri. Imports. By boat. | Imports. By steamer. | Exports. By boat. | Exports. By steamer. | Registered at Bhairab Bázár. Imports. By boat. | Imports. By steamer. | Exports. By boat. | Exports. By steamer. |
|---|---|---|---|---|---|---|---|---|---|
| Timber ... ... ... | Number ... | ... | 2,660 | 384,392 | 622 | 1,981 | 2,554 | 2,293 | 156 |
| Caoutchouc ... ... ... | Maunds ... | ... | 8 | ..... | 5,886 | ... | 5 | ..... | 17 |
| Lac ... Stick ... ... ... | „ ... | ... | ..... | 694 | 14,059 | ... | ..... | ..... | ..... |
| Lac ... Shell ... ... ... | „ ... | ... | 3 | ..... | ..... | ... | 35 | ..... | ..... |
| Bamboos ... ... ... | Number ... | ... | ..... | 20,850 | ..... | ... | ..... | 729,000 | ..... |
| Thatching grass ... ... | Cubic feet ... | ... | ..... | 2,729,690 | ..... | ... | ..... | 464,592 | ..... |
| Reeds ... ... ... | Bundles ... | ... | ..... | 57,393 | ..... | ... | ..... | ..... | ..... |
| Canes ... ... ... | Maunds ... | 105 | 2 | 7,079 | 255 | ... | ..... | 3,990 | ..... |

## Appendix VII.—*concluded.*

*Exports of Rubber from the several Districts of Assam during 1891-92, as compared with last seven years.*

| — | 1884-85. | 1885-86 | 1886-87. | 1887-88. | 1888-89 | 1889-90 | 1890-91. | 1891-92. |
|---|---|---|---|---|---|---|---|---|
| | Mds. | Mds. | Mds | Mds. | Mds | Mds | Mds. | Mds |
| Cachar ... ... | 99 | 8 | 11 | ..... | 163 | 24 | 20 | ..... |
| Sylhet .. ... | 110 | 26 | 59 | 35 | ..... | ..... | ..... | 17 |
| Goálpára ... | 588 | 728 | 297 | 221 | 593 | 298 | 158 | 498 |
| Kámrúp ... | 100 | 641 | 149 | 182 | 610 | 550 | 619 | 160 |
| Darrang ... | 2,717 | 1,440 | 1,375 | 493 | 1,212 | 753 | 788 | 890 |
| Nowgong ... | 963 | 1,510 | 323 | 554 | 470 | 41 | 50 | 596 |
| Sibságar ... | 200 | 741 | 197 | 1,653 | 708 | 877 | 900 | 160 |
| Lakhimpur ... | 2,752 | 1,429 | 1,463 | 4,115 | 4,472 | 2,094 | 2,309 | 3,582 |
| Total ... ... | 7,529 | 6,523 | 3,874 | 7,253 | 8,228 | 4,637 | 4,844 | 5,903 |

A. & P. O. (Revenue) No. 65—00—2-9-92

# Resolution on the Assam Forest Report for 1891-92.

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*Extract from the Proceedings of the Chief Commissioner of Assam, No. 4658R., dated the 16th September 1892.*

Read—

The Report on Forest Administration in Assam during 1891-92.

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## RESOLUTION.

On the 31st August 1891, Mr. J. T. Jellicoe, after having held charge of the Forest Department, as a temporary arrangement, from the 1st May 1891, was relieved by Mr. J. McKee, who has held charge of the Department since that time. The present report was punctually submitted to this office, but, owing to the pressure of work in the Secretariat Press, the final proof of the report was not received until the 5th of September.

Chapter I.—Area and boundaries.

2. No large additions took place under the head of either reserved or protected or unclassed forests during the year under report, the only additions having been 10 square miles under reserved and 17 square miles under unclassed forests. On the other hand, 52 square miles were excluded during the year under the head of unclassed forests and 4 square miles were excluded under protected forests. The general result, therefore, as regards all classes of forests taken together was a net decrease of 29 square miles (from 9,988 to 9,959 square miles), the percentage of forest area to the total area of the Province remaining at the same figure as in the previous year, that is, 22. The increase in the reserved area was confined to the districts of Cachar, Nowgong, and the Khási Hills; but, in addition to this increase, no less than 252,918 acres, or 395 square miles, situated in the districts of Nowgong and Sibságar, were notified during the year as proposed reserves, the settlement enquiry in regard to which is still in progress. The question of adding to the reserves in the Gáro Hills, which involves administrative considerations of some importance, has been reserved by the Chief Commissioner for personal discussion with the Deputy Commissioner on the occasion of Mr. Ward's contemplated visit to that district during the ensuing cold weather. As regards the area now classed as "protected" the Conservator correctly points out that the new Assam Forest Regulation, which has superseded the Forest Act of 1878, takes no cognisance of forests of this class; but the Chief Commissioner, on the information at present before him, is not prepared to express an opinion as to the extent to which the "protected" area will ultimately be transferred to the reserves or be included under the head of unclassed forests and waste lands. The maintenance of the existing demarcation of the forests appears to have received attention, the total cost having been Rs. 4,074-6-1, or Rs. 3-11-1 per mile, against Rs. 3,857-0-9, or Rs. 3-9-11 per mile, during the preceding year. The circumstances under which the cost per mile increased in the Darrang district from Rs. 2-5-5 in the previous year to Rs. 9 2-10 during the year under report require further explanation, which the Conservator is requested to procure and submit. It is scarcely sufficient to say that the increase resulted from the fact that the boundary was not properly cleared last year, or that the expenditure during the year under report is

believed to have been affected by the inclusion of certain expenditure on account of demarcation and valuation. The difference between the two years is very large, and the causes should be fully ascertained.

Chapter II.—Survey, working plans, and plans of operations.

3. The work of collecting information for compiling plans for the Goálpára sál forests was continued during the year, but was unfortunately delayed in consequence of the inability of the Forest Survey to keep pace with the demarcation of class lines. The Chief Commissioner understands that the progress of this work, which, as pointed out by the Conservator, is very costly, is dependent on the progress of the survey, and that if the survey could be more rapidly carried on, the cost might be reduced by the employment of a larger staff under the Working Plans officer. The survey is being conducted by a party of the Imperial Forest Survey, and the Chief Commissioner can only express his hope that the work will be pushed on as quickly as possible, and that the compilation of the working plans at a later stage will not be delayed in consequence of any failure on the part of the survey officers to supply the Forest Department with the necessary maps and area contents of the different forest classes.

Chapter III.—Protection and improvement.

4. The question of the re-organization of the subordinate executive forest establishments in Assam is still before the Government of India, and it is sufficient to state here that the proposals made by the Conservator have been recommended for sanction as being justified by the requirements of the department. The remarks made in paragraph 33 of the present report regarding the difficulty of procuring qualified men for subordinate forest appointments on the rates of pay available are no doubt correct; but this is a difficulty which is felt not only in connection with the Forest Department, but, more or less, with all departments of the Administration in Assam. The drawbacks to subordinate service in Assam are, as a rule, considerable, and are perhaps especially marked in the case of the Forest Department. Unfortunately, it is not possible in all cases to depend on indigenous agency, and, the province being a poor one, financial considerations do not admit of such rates of pay being offered as would suffice to attract the best qualified men from a distance. In reviewing the report for the previous year, the Government of India referred to the decrease shown under the head of new cases prosecuted in court, and the percentage of convictions obtained. A doubt was also expressed as to whether the provisions of section 67 of the Forest Act, which relate to the compounding of offences, were not applied in cases which they were not designed to meet. The present report shows an increase (from 115 to 171) in the number of new cases brought before the courts, but the percentage of convictions obtained, though it has increased somewhat (from 73 to 78) as compared with the previous year, is still low. As regards cases compounded under section 67 of the Act, it is noteworthy that in the year under report, as in the preceding year, cases of injury to forests by fire, dealt with under this section, were confined to the Goálpára, Kámrúp, and Gáro Hills Forest Divisions. No explanation has been given of the nature of these cases, or why they were confined to certain particular divisions, and a further report will be called for on this point. In regard to the use of this section, generally, the large majority of cases (234 out of 260) related to the illicit removal of forest produce, and were, therefore, probably cases which the section was designed to meet. The results shown under the head of protection of forests from fire cannot be regarded as satisfactory, the total area over which special protective measures were adopted having been 730,556 acres, against 730,549 in the previous year, of which 642,000 acres, or 88 per cent., were successfully protected, against 685,196 acres, or 93·79 per cent., in 1890-91. The percentage of failures to area attempted increased in every district except Darrang, the increase being especially marked in the case of Goálpára (from 10·16 to 18·83). It is doubtless the case, as observed by the Conservator, that the year was exceptionally unfavourable, owing to the

short rainfall and its early cessation, while these climatic conditions were accentuated under the peculiar circumstances of the forests in the Goálpára district. On the other hand, the fact that out of the total forest area (79,556 acres) burnt in the district last mentioned, no less than 31,460 acres were burnt from preventible causes, that is, accidents in line tracing, while in "several cases" the fires are ascribed to a breach of rules in connection with the burning of lines, indicates an amount of laxity on the part of the local officers which calls for severe censure. Indeed, this laxity cannot be said to have been confined to the officer or officers in charge of the Goálpára division, as much as 40 per cent. of all the fires which occurred during the season under review throughout the Province being reported to be directly due to carelessness on the part of firing parties. No doubt it is difficult for the superior officers to control such parties, but it is altogether impossible to avoid the conclusion that very much more might be done than has been hitherto done in this direction. The Chief Commissioner further observes that the want of success during the year under report throughout the Province generally cannot be ascribed to any material curtailment of expenditure, the total expenditure under this head having been Rs. 19,483, against Rs. 20,872 in 1890-91, and Rs. 12,368 in 1889-90. The matter is evidently one which demands prompt and careful attention, and the Conservator is requested to make special enquiries into it during his forthcoming tour, and to report the result at the conclusion of the cold season. The Chief Commissioner observes that the Goálpára forest division was subjected to no less than five changes of controlling officers during the year, a state of things such as to render good administration impossible. The criticisms offered by Mr. McKee under the head of "artificial reproduction," in so far as they refer to the Charduar rubber plantation in the Darrang district and the Nambor plantation in the district of Sibságar, appear to disclose a waste of public money which is, to say the least, regrettable.

Chapter IV —Yield and working

5. The total outturn from Government forests of all classes, expressed in cubic feet, increased from 4,554,708 to 4,855,278, or by 300,570 cubic feet, and the increase which occurred under reserved and protected forests is attributed to a greater demand on these classes of forests in consequence partly of a development of departmental operations, but principally of largely increased removal of timber and fuel by purchasers. The revival of the timber trade thus indicated, which is said to have outstripped that of any former year, is a satisfactory feature in the present report. As regards the treatment of rubber, to which reference is made in paragraph 83 of the report, it may be noted that since the close of the year the Government of India have, on the recommendation of the Chief Commissioner, sanctioned the levy of a duty of Rs. 12 a maund on all rubber, whether of foreign or home extraction, exported from Assam. The further necessary steps will be taken on receipt of the orders of the Government of India upon the draft rules for the collection of the duty, which were submitted to the Revenue and Agricultural Department under cover of the Chief Commissioner's letter No. 3016R., dated the 5th July 1892.

Chapter V.—Financial results

6. The following figures show the financial results during the year under report as compared with those of the two previous years :

| Year | | | Receipts. | Charges | Surplus. | Proportion of surplus to gross revenue |
|---|---|---|---|---|---|---|
| | | | Rs | Rs | Rs | |
| 1891-92 | .. | ... | 3,36,129 | 2,67,525 | 68,604 | 20 |
| 1890-91 | ... | ... | 3,26,793 | 2,83,853 | 42,940 | 13 |
| 1889-90 | ... | ... | 3,79,198 | 2,57,129 | 1,22,369 | 32 |

The net result of the year's operations was therefore an increased surplus, the increase representing nearly 60 per cent. over the surplus of the previous year, which was due to enhanced receipts and reduced expenditure. Under the head of receipts a considerable enhancement may be looked for in consequence of the duty which it has been decided to levy on rubber exported from the Province. The variations in the figures of the last two years appear to be sufficiently explained in the report, and the Chief Commissioner has no detailed remarks to make, except to invite the Conservator's renewed attention to the necessity for exercising a careful control over all forest charges in the Province.

7. The acknowledgments of the Chief Commissioner are due to Mr. McKee for the careful manner in which he has supervised the department since he took over charge and for the clear report submitted by him of the year's operations.

By order of the Chief Commissioner of Assam,

F. C. DAUKES,

*Secretary to the Chief Commissioner of Assam.*

No 60 F., dated Calcutta, the 16th January 1893.

*From*—SIR E. C. BUCK, KT., C.S.I., *Secretary to the Government of India,*

*To*—*The Chief Commissioner of Assam.*

I AM directed to acknowledge the receipt of Mr. Daukes's letter No. 4903 R., dated the 23rd September last, forwarding the Annual Report on Forest Administration in Assam for the year 1891-92, together with your Resolution thereon. The delay in the submission of the Report is explained to be due to pressure of work in the Secretariat Press, but I am to intimate the desire of the Government of India that it may be endeavoured in future to secure greater punctuality.

2. The minor alterations which took place during the year in the area of the forests have been summarised in your Resolution. It is observed that measures for the reservation of some 480 square miles of forest are in progress or under contemplation, and the Government of India understand that you will in due course decide to what extent the 912 square miles, hitherto, classed as "protected," can equitably be included in Reserved Forests. The further extension of Reserves in Assam seems very desirable; for though there are at present large areas under forest growth with an aggregate possibility far above the demand of the country, these conditions may change. Disforestation can always be effected when occasion arises, whereas difficulties may occur in bringing under the Forest Act areas which it is now easy to secure.

3. The survey of the sál bearing tract in the Goalpara District was continued during the year by the Forest Survey Branch, but the information furnished by the Conservator relates to the survey year 1890-91, and is therefore incomplete. In this connection, I am to invite a reference to the suggestion made by the Inspector General of Forests in paragraph 7 of his general Review of Forest Administration in India for 1890-91.

4. Operations in the direction of compiling new working-plans were confined, as in the preceding two years, to the Goalpara forests. The collection of the necessary information was commenced as long ago as October 1889, and in view of the considerable expenditure incurred, the work should soon be brought to a conclusion. The cost of the few plans hitherto prepared has been decidedly incommensurate with the results achieved, and in this connection I am to invite a reference to the correspondence ending with the letter from this Department, No. 866 F., dated 16th August 1889.

5. The number of cases of forest offences prosecuted in Court or compounded approximated to the figures for 1889-90, and the results tend to show that, as apprehended by the Government of India in their Review on the Report for that year, there had been a diminution of efficiency in detecting and punishing offences. During 1891-92 there were 171 new cases, or 48 per cent. in excess of the previous year. The percentage of convictions obtained, *viz.* 79, shows an improvement, but is still 3 per cent. less than the percentage of 1889-90. The number of cases compounded also increased from 219 to 260. Compositions continued to be accepted on account of injury caused to the forests by fire, and a comparison of the report and returns indicates that cases which resulted in the burning of from one to two thousand acres in the Goalpara and Darrang Districts were thus disposed of. Even the careless causing of forest fires is an offence of too serious a nature to be ordinarily

dealt with under the compounding section, which was designed to meet cases of a trivial nature.

6. The want of success in the fire-protection of the year has been attributed to a great extent to laxity and want of supervision on the part of the superior forest staff. The Governor General in Council agrees that the unfavourable season was not the only cause of failure. The evident want of intelligent supervision in fire-tracing, which is held accountable for 40 per cent. of the gross area burned, is not creditable to the officials concerned. There seems reason to believe that similar cases of carelessness in connection with fire-protection have occurred in past years, and I am to request that this part of the Department's work may be specially watched in future.

In paragraph 8 of the Government of India's Review for 1890-91 attention was drawn to the increased cost of fire-protective works in that year, as compared with 1889-90. I am again to ask that information upon this subject may be furnished in the Progress Report for the current year.

7. Under the head of plantations and cultural operations, the work done was unimportant; but here again there appears to have been a want of care in the control of expenditure. Form No 52 appended to the Report is by itself unintelligible. It shows that no alterations took place in the area of plantations, though nearly R5,160 were spent on such work. Vacancies filled in plantations, or areas struck off as failures, should be recorded in these returns. Upon the Charduar rubber-plantation R4,898 were expended, most of which was unproductive of result. No doubt, the lines have been cleared and the mounds prepared are ready to be stocked with new plants in place of those which failed. Thus a small portion only of the money expended is actually wasted, but the Government of India cannot agree with the Conservator that the waste of money was unavoidable. Putting aside the cost of controlling and other establishment, R24,000 have been expended on this plantation during the past three years, and so far as can be gathered from the annual returns, R1,22,000 since the work was first commenced. In the enclosure to your letter No. 1188 R., dated the 29th March last, the Conservator reported that the failures in Charduar had always been considerable, amounting frequently to as much as 50 per cent. It is observed that work in the plantation is to be continued, and I am to suggest that the past history of the undertaking may be carefully recorded in a special report with as much detail as may be possible; that its present status may be authoritatively described; and that a forecast from a technical and financial point of view may be submitted.

8. The outturn from the forests was as follows :—

| Class of Forests and Agency by which removed | Outturn in cubic feet | | Bamboos | Minor produce |
|---|---|---|---|---|
| | Timber | Fuel | | |
| | | | No | R |
| *Reserved Forests*— | | | | |
| Government | 56,135 | 192 | 29 | 720 |
| Purchasers | 763,976 | 27,965 | 1,196,2.6 | 2,586 |
| Right-holders | . | | .. | |
| Free-grants* | 50,457 | 403,768 | 122,700 | 27 |
| Total | 870,568 | 431,925 | (a)1,319,665 | 3,333 |

| Class of Forests and Agency by which removed | Outturn in cubic feet: Timber. | Outturn in cubic feet: Fuel | Bamboos | Minor produce |
|---|---|---|---|---|
| | | | No. | R |
| *Protected Forests—* | | | | |
| Government | | | | |
| Purchasers | 27,719 | ... | 452,922 | 1,566 |
| Right-holders | | 6,546 | | |
| Free-grants* | 11,636 | 783,294 | 1,340,000 | 3,784 |
| TOTAL | 39,355 | 789,840 | (b)1,792,922 | 5,350 |
| *Unclassed Forests—* | | | | |
| Government | 17 337 | 5,310 | 525 | 10 |
| Purchasers | 834,178 | 160,151 | 466 631 | 54,519 |
| Right-holders | | | | 72 |
| Free-grants* | 484,852 | 1,221,762 | 570,308 | 1,313 |
| TOTAL | 1,336,367 | 1,387,223 | (c)1,037,464 | 55,914 |
| Grand Total in 1891-92 | 2,246 290 | 2,608,968 | (d)4,150,051 | 64,597 |
| " " 1890 91 | 1,928,035 | 2,626,673 | 4,038,531 | 62,465 |
| Difference in 1891 92 | +318,255 | —17,685 | +111,520 | +2,132 |

* *Total value of Free-grants.*

| | R | | R | |
|---|---|---|---|---|
| Timber and fuel | 88 037, | as against | 84,939 | in 1890 91 |
| Bamboos | 7,799 | " | 6 658 | " |
| Minor produce | 5,144 | " | 5,307 | " |
| TOTAL | 97 980 | " | 97,004 | " |

| | Value R |
|---|---|
| (a) | 4,287 |
| (b) | 3,783 |
| (c) | 5,779 |
| (d) | 13,818, as against R12 448 in 1890 91 |

The working of the Department under this head has been shortly summarised in the Report and in your orders, and no further observations seem called for.

9. The financial results of the year, as compared with those for 1890-91, were :—

| Year | Receipts. | Charges. | Surplus. | Proportion of Surplus to Gross Revenue. |
|---|---|---|---|---|
| | R | R | R | Per cent. |
| 1891-92 | 3 36,129 | 2,67,525 | 68,604 | 20 |
| 1890-91 | 3 26,793 | 2,83,852 | 42,941 | 13 |
| Difference in 1891-92 | 9,336 | —16,327 | +25,663 | 7 |
| Average for the five years ending 1890-91 | 2 97,899 | 2,38,013 | 59,886 | 20 |

These results were satisfactory. There was an increase under almost every head of revenue, and the proportion of surplus to gross receipts was also materially enhanced. I am to point out, however, that the balance of revenue outstanding at the close of the year continues to be considerable, and that no explanation on this account has been offered. The outstanding balance (R47,892) was equivalent to 14·2 per cent. of the gross receipts (R3,36,129). I am to request that enquiry may be instituted with a view to ascertain whether it will not be possible to prevent such large outstandings in future.

10. In conclusion, I am desired to convey the acknowledgments of His Excellency in Council for your comprehensive review of the operations of the year. Your commendation of the work done by the Officiating Conservator, Mr. McKee, has been noted with pleasure.

## APPENDIX SHOWING THE DISCREPANCIES NOTICED IN THE ASSAM FOREST ADMINISTRATION REPORT FOR 1891-92.

*Paras. 6 and 34 (clause 2) of Report.*

Convictions were obtained in 78·77 (nearly 79), not 78, per cent. of the cases prosecuted in the Courts.

*Para. 20 of Report (Statement).*

Against the Panbari and Saukos forests, in the column "Percentage of total area," the figures should be 3·95 and 3·10, respectively, instead of 4·00 and 3·45.

*Para. 47 of Report (Statement).*

The average cost of fire-protection per square mile in the Khasi and Jaintia Hills Division in 1891-92, is here given as R164-4-8 for the "area attempted" and R169-0-2 for the "area protected," whereas according to the figures given in Form No. 51 the cost per square mile was the same for both "area attempted" and "area protected", *viz.*, R168-2-3.

*Para. 68 of Report, last clause.*

According to the figures given in paragraph 67 of the Report, the Reserved and Protected forests supplied 44, not 41, per cent. of the total timber demand.

FORM No. 58.

(*Summary of Revenue and Expenditure.*)

In this form fractions of rupees exceeding one-half should have been taken as a full rupee, and fractions of one-half or less of the rupee should have been omitted (*vide* section 239 of the Forest Department Code).

Government of India Central Printing Office.—No. 782 R. & A.—20-1-93.—180.—M. A.